TELETASK

Domotics Systems

Data Sheets

Version: June 6th, 2011

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Content

Introduction

There is no doubt that the TELETASK domotics system is worldwide the most complete one available today.

It offers full control on:

- lighting
- heating
- air conditioning
- curtains
- shutters
- drapes
- audio
- video

Control via:

- push buttons
- contacts (window contact...)
- multi functional buttons
- polyvalent touch panels
- IR remote control
- motion detectors
- computer
- telephone...

Different sensors:

- temperature
- light
- humidity

Interfaces to:

- alarm systems (Galaxy)
- audio: RC-5/ESI
  Bang&Olufson
  Bose
  AudioAccess
  ...
- telephone

AUTOBUS

The TELETASK AUTOBUS is a bi- directional high speed bus.

When you press a button (closing a contact), the corresponding interface immediately transmits the command (including error detection and correction information) via the AUTOBUS cable to the central unit. The central unit answers to this command with a confirmation to the transmitting interface. If this is not the case, the interface will retransmit his command.

Qualification

Only qualified electrical contractors, who have the necessary training and knowledge of the electrical and electromagnetic regulations concerning the safety of the end-user, are allowed to install the TELETASK products.

Installation

The AUTOBUS cable has always to be carefully installed and is to be connected to every AUTOBUS interface.

The AUTOBUS connection is fourfold, plus one extra wire and a shielding:

- the +12V connection (thick red wire)
- the 0V connection (ground) - (thick black wire)
- communication wire ‘A’ (thin blue wire)
- communication wire ‘B’ (thin white wire)
- The fifth wire, ‘IR-link’ connection is the thin green wire. This wire is the connection between the IR-receivers (of the touch panels) and an IR-transmitter. This wire is not to be connected to the central unit.

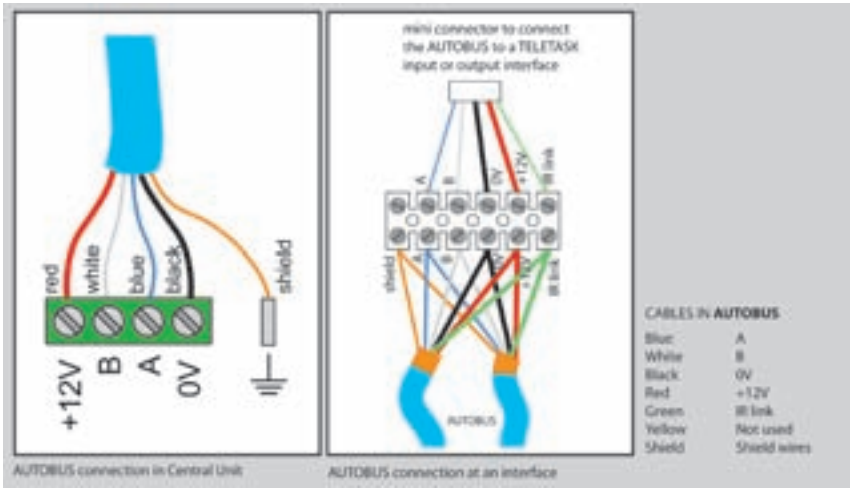
Remark: The AUTOBUS cable is to be wired in bus configuration. This means that the cable starts at the central unit and runs through the house, connecting all the installed interfaces on after another. If necessary, a limited number of ‘T’-connections can be made at the level of the central unit.

Terminating the AUTOBUS.

In order to eliminate reflections on the bus cable, it is necessary to terminate by means of a terminating resistor.

By default, there are no terminating resistors connected. The resistor is to be connected at the far end of the AUTOBUS cable at the last interface. This is done by setting a jumper, which is present on every AUTOBUS interface.

When the communication seems not to be working perfectly, it is recommended to set the terminating jumper in the



central unit (besides the AUTOBUS connector).

Inputs

Digital inputs (open/close)

Only voltage free contacts may be connected to the digital inputs (for example standard wall mounted push buttons). Normally, they are of the 'normal open' type.

It is not allowed to use contacts which are switched more than once per second.

Analog inputs

Three types of sensors are available to be connected to these inputs.

They are:

- the temperature sensor
- the humidity sensor
- the light sensor

The connection between the sensor and an analog input is to be made by an individually shielded cable.

Feed-back

The LED indicators in the touch panel buttons, and the LED indicators connected to the interfaces with feed-back output, do reflect the status of the underlying function.

This may be the status of a light or a mood. Also in this last case, the LED is activated as long as the mood is active. Even if the function is controlled from another area (in another room), the status of the LED is always upgraded to the real time status of his function.

Outputs

Relay outputs

The MICROS+ central unit is equipped with 24 relays-outputs, each capable of switching 10A nominal.

This can be extended with several power relays modules (16A) onto the AUTOBUS.

All the relay modules have voltage free contacts.

Remark: Inrush Currents.

Only a fraction before a relay is closed, an arc is created between both relay contacts. This arc is already created with a current from only 100mA. With high currents the arc can be so intense that the relay contacts melt due to the released heat and stick together. Generally spoken the rule: "the higher the inrush current, the higher the risk that the relay contacts sticks" counts.

In most cases the stuck contacts breaks when the relay opens due to the elasticity of the relays contacts. With a high-inrush current, the contacts can stick permanently. In that case the relay is broken. To solve this problem, TELETASK uses special high inrush current relays. These relays can bear high inrush currents (I_{HI}) which are a multiple of the nominal current (I_N). Both values are available in the data sheet of the corresponding TELETASK product.

The biggest disadvantage of an inrush current is that you can't calculate is using the formula I=P/U. For that reason the inrush current of several loads is measured in lab tests. TELETASK put these values indicative at your disposal in the "Table Inrush Currents".

Depending on the type of the load the inrush values can be different. Always you're your supplier the right nominal current (I_N) and inrush current (I_{HI}). That the inrush current can be a multiple (up to a hundredfold) of the nominal current is often forgotten. However this inrush current is important to determine the maximum load that can be switched using one TELETASK relay. Using the TELETASK relay current values and the current values of the load, you are able to define the number of lamps, equipment etc. that can be switched with the TELETASK relay.

Example: How many TL lights 58W can be coupled to a relay output of the MICROS central unit? From the data sheet of the MICROS+ (TDS10012) you have I_{max}= 80A. Out the table you have I_{max}= 20A. This means that one MICROS relays is able to switch up to 4 TL lights 58 W (of the type used in the lab test). The nominal current is in this case no problem at all.

Table: Inrush Currents

Some test results of typical AC voltage switch loads:

Type of the Load	Nominal Power (VA)	Nominal Current (I_N)	Max. Inrush Current (I_{HI})	I_N / I_{HI}	Duration 50% I_{HI}
Ohms (resistant)	100	0,43	0,61	1,41	6,5 ms
Light Bulb (also halogen)	100	0,43	8,5	20	600 µs
TL-lamp (incl. fitting)	58	0,25	20	80	180 µs
Low-energy Light Bulb	17	0,074	13,5	180	70 µs
Transformer	85	0,37	13,4	36	4,5 ms
Contactor	115	0,50	15	30	5 ms
Shutters	110	0,48	1,1	2,3	5 ms *
Compressor Motor	200	0,87	17	20	5 ms *
Ventilator	1200	5,3	44	8,3	5 ms *
Capacitor 10 µF		0,72	110	150	40 µs
PC monitor with tube	60	0,26	76	290	1 ms
LCD screen for PC	10	0,044	70	1600	250 µs

* Augmented current during the complete inrush phase of the motor (100… 500 ms)

These values are indicative and depend on the local situation. Errors or defects caused at the TELETASK products due to these values have no claim to the TELETASK guarantee.

Analog outputs

Depending on the type of central unit, there are 16, 40 or 120 analog outputs available.

They provide 0-10V control is meant to be used to control light dimmers or a heating/ cooling valve or a ventilation servo motor.

Attention: the connection between the analog output and the unit which is to be controlled has to be made by a shielded cable. The shielding has to be connected to earth at the central unit.

Input - output relations

Actions

The actions which are executed by the TELETASK system are directed by the software tables. These tables are memorised in the central unit. They contain the relationship between the input- and outputs.

Example: a standard push button controls a light in the kitchen. This means that there is a relation between the button and the kitchen light. The button is the INPUT and the light is the OUTPUT.

PROSOFT

The relations are defined by the PROSOFT software package. Normally the installer first defines the list of the connected outputs, followed by the list of inputs. Finally the relations

between the inputs and outputs are defined.

There are different types of relations. They are listed in the 'list of functions'. Examples of functions are: switch, dim, sensor function, audio function, etc...

Types of functions

No function

When you push on a button with no dedicated function, no action will occur. When starting a new file in PROSOFT, all defined inputs and outputs are at this level. Only in the case of the touch panels with LCD and VFD display with 5 buttons, the upper three buttons (n° 4, 5 and 6) are pre-installed with 'up', 'down' and 'menu' functions (specially for heating and cooling purposes).

The 'switch' (ON/OFF) function

When pushing a button, when using the 'switch' function, the corresponding relay output changes position.

Parameters:

1. Select a relay output.

The 'dim' (dimmer) function

When pushing short on a button with the 'dim' function, the evolved dimmer output will toggle between 0V (OFF° and the mast memorised status of the dimmer output. The speed for lowering and increasing the output level is defined in the 'ramp speed' parameter which is available in the 'outputs' screen.

Parameters:

1.Select the desired analog output

The 'timed' function

After pushing a button, the evolved output is switched ON (or OFF) for a preset time. After this time is elapsed, the output is set back to its former status (for example to be used in staircase lighting).

Parameters

1. Select an output
2. choose the temporarily status
3. Set the desired delay time

The 'motor' function (curtains, shutters...)

This type of function is especially used to control up/down left/right controllable motors. This function controls two relays by default. The first relay controls the ON/OFF working of the motor. The second relay controls the running direction of the motor. The software controls these two relays in a specific way, so the user is able to control such motor with only one button:

When you push the button:

- the direction relay is inversed
- the on/off relay (which is called the 'power' relay) is activated (the output contact closes)
- the shutter lowers
- after some time the shutter reaches the end.
- after a preset time, the power relay is deactivated to secure the motor against overheating caused by blocking.

When the button is pushed a second time before the preset time is elapsed:

- the power relay is deactivated immediately to stop the motor at its current location.

When pushed again.

- the software deactivates the power relay, inverses the direction relay and activates the power relay again (and the shutter goes up again).

Parameters:

1. Select the output 'power' relay.

2. Select the output 'direction' relay

3. Define the preset run-time (set it at some five seconds more than the normal full up/down runtime

The 'fan' function

This function makes it very easy to control an exhaust fan together with a light point. After the light is switched OFF, the fan stays active for a preset time.

Parameters:

1. Select the output relay on which the light is connected to.

2. Select the output relay which controls the fan.
3. Set the delay time.

Transparent

This type of function reflects the position of the input to the status of the connected output (relay, flag...)

Parameters:

1. Select an output (or flag or local mood).

Remark: even a local mood can work the same way of a local mood.

Motion detector

To be combined with a motion detector.

When motion is detected (contact s closed) the connected output will be 'high'(ON). When no motion is detected, the output will be 'low' (OFF) after the delay time is elapsed.

Parameters:

1. Select an output or a local mood
2. Select the 'ON' level
3. Define the delay time

Local mood

It is sufficient to press a button, to activate the underlying local mood, or to deactivate it when the mood was already active.

Not only functions like switch and dim, but also other type of functions can be activated in a local mood. For example changing temperature set points to a pre defined level. It is also possible to activate other local moods from within a local mood.

Parameters:

1. Select the desired output
2. Add him to the local mood list
3. Select the ON/OFF level
4. Do the same with the other items you want to be changed by the local mood
5. 'Toggle': when this item is marked, all the circuits in the local mood will be deactivated when the button is pushed.

Timed local mood

Push the corresponding button to activate or deactivate the timed local mood.

Every action which is contained in the TLM is processed one after another, with a time in between two actions as it is defined (x seconds) .This inter-delay time is noted in the most right column of the TLM. The mood execution is stopped and all the concerned relays and dimmers are inversed, when the button of the mood is pushed during the execution period.

Parameters:

1. Select the desired output
2. Add other actions
3. Define the level of each action (on/off/x%)
4. Enter the inter-delay time
5. 'Repeat': if marked, the timed local mood will start back the first action after executing the last one, until it is stopped by pushing the evolved button.

General mood

The only difference between a local mood and a general mood is the number of actions evolved. With the General Mood, all the connected outputs can be influenced. So you can change an unlimited number of outputs by pushing the evolved General Mood button.

A General Mood can only be activated. It is not possible to deactivate the evolved output.

Parameters:

1. Select an output
2. Define its level and do the same for all the other outputs you want to be influenced by the General Mood.
3. Select, if desired, the tab 'extra functions' and add a maximum of 5 commands which are to be executed.

Temperature

When you have entered a sensor- temperature function, you have the choice between the following actions:

- Temperature UP (steps of 0.5 °C)
- Temperature DOWN (steps of 0.5 °C)
- Temperature TOGGLE:

Switch between DAY and NIGHT.

Switch between DAY and STANBY.

Switch between NIGHT and STANDBY.

- set to DAY preset.
- set to STANDBY preset.
- set to NIGHT preset.
- Frost protection temperature (is a preset value)
- Mode selection: only HEAT, only COOL, AUTO cool/heat.
- Switch Temperature zone ON or OFF.
- Window OPEN, activate frost protection.

Using the different thermostat functions, you are able to create an advanced integration of your heating/cooling system.

More information on this item is available in the TELETASK technical handbook or in the manual of the corresponding user interfaces.

Regime

For a detailed description of the 'regime' and 'clock' system, refer to the TELETASK manual (with each central unit, there is a CD-Rom delivered, with the manuals on it).

The TELETASK system possesses a clock system, wherein a regime can be active or not active. The following actions are possible:

- Regime 'DAY' is active (activate the DAY regime, and deactivate all the other regimes).
- Regime 'week-end'.
- Regime 'automatic' (automatically switch between DAY and NIGHT regimes, based on the clock; at 00am).
- Presence simulation regime
- No regimes are active

Audio

This functions gives you the possibility to activate a certain

function on a connected audio system, just by pushing a button or a similar event. The supported audio actions are these you need to basically control a tuner, cd or a tape... This means ON/OFF/FM/CD/TAPE/NEXT TRACK/NEXT PRESET. This list of actions may slightly differ from audio system to system. (based on the type of TELETASK interface which is used).

The following audio interfaces are available at TELETASK:

1. RC5 interface (infra red transmitter which support all RC5 compatible (mainly European) systems. On request TELETASK can deliver this interface containing other protocols (JVC, SONY,...)

2. Audio interface for Bang&Olufson (multi-room system).

3. Audio interface for Audio Access (multi-room / multi-source system).

4. Audio interface for Bose lifestyle X8 systems (multi-room / multi source system).

5. IR Based systems: every IR controllable system can be integrated using the IR learnable interface.

Flags

To be able to use logic functions and conditions, TELETASK also supports the use of 'flags'. A flag can be 'true' or 'false' (1 or 0), reflecting the status of an input or an event.

Example: when you need to know whether a light sensor detects a 'light' or 'dark' situation (above or below a certain lux-level) you can use a flag to define this status. This flag can then be used in a condition to control an outdoor light or for example to control a local mood 'evening'...

Condition

A logical function is realized with the 'condition' function. The condition is 'true' or 'false', based on the rules in the condition.

5 conditions can be implemented in the condition function. Each individual condition is compared with the actual status of the concerned parameter (on/off/%). The comparison is based on the parameters = / < / =< / > / =>.

The final result of the condition function is based on a number of logical functions AND and OR.

More information is available in the TELETASK technical handbook.

Process function

The PROCESS function, once she is started, runs continuously and is checking continuously her evolved status or process. This function generates an action based on the status change of a relay/dimmer/ local mood/ flag or condition which is monitored. The action to take is dependent of the monitored function.

Some parameters can be set, which define how the activation function will react on the changes in the monitored function.

Important remark: The process function has to be activated (=started) by an input or at the power-up of the central unit.

A typical example of the use of a process function is the activation of the circulation pump of the heating system. When a zone valve is opened, the circulation pump is activated to run the hot (or cold) water through the system.

More information is available in the TELETASK technical handbook.

The 'if-then-else' function

With the if-ten-else function, you can define a condition on which an action has to be undertaken, but if the condition is different (else) another action has to be undertaken.

The condition is verified only on the moment that the 'if-ten-else' function is called (for example on the moment that the button which holds this function is pushed).

Parameters:

Select the function:

1. Select the condition in the 'name function' and 'if condition true' field. Remark: relay 'on' is comparable with 'true'

2. Select the 'then' function and evolved status to which the action has to be influenced.

4. Select the 'else' function and the status.

Example for the application of the if-ten-else function. Night hall

In the case that the lights in the night hall are controlled by a dimmer, the following functionality is a good often used example for the control of these lights.

If during the day (the general mood 'night' is 'false'), the button or motion sensor in the hall is activated, the lights in the night hall are switched on to 100%. If the same button or motion detector is activated during the night (the 'night' local mood is 'true'), then, the lights in the hall are switched to for example only 30%. In short, you use the function in the way: if day, go to 100%, else go to 30%.

MICROS+ central unit — TDS10012

Central unit equipped with 2 AUTOBUS connections. Configuration via USB and Ethernet connection. The Ethernet connection can be connected to a LAN network. 8 dimmer outputs 0-10V are default available in the unit.

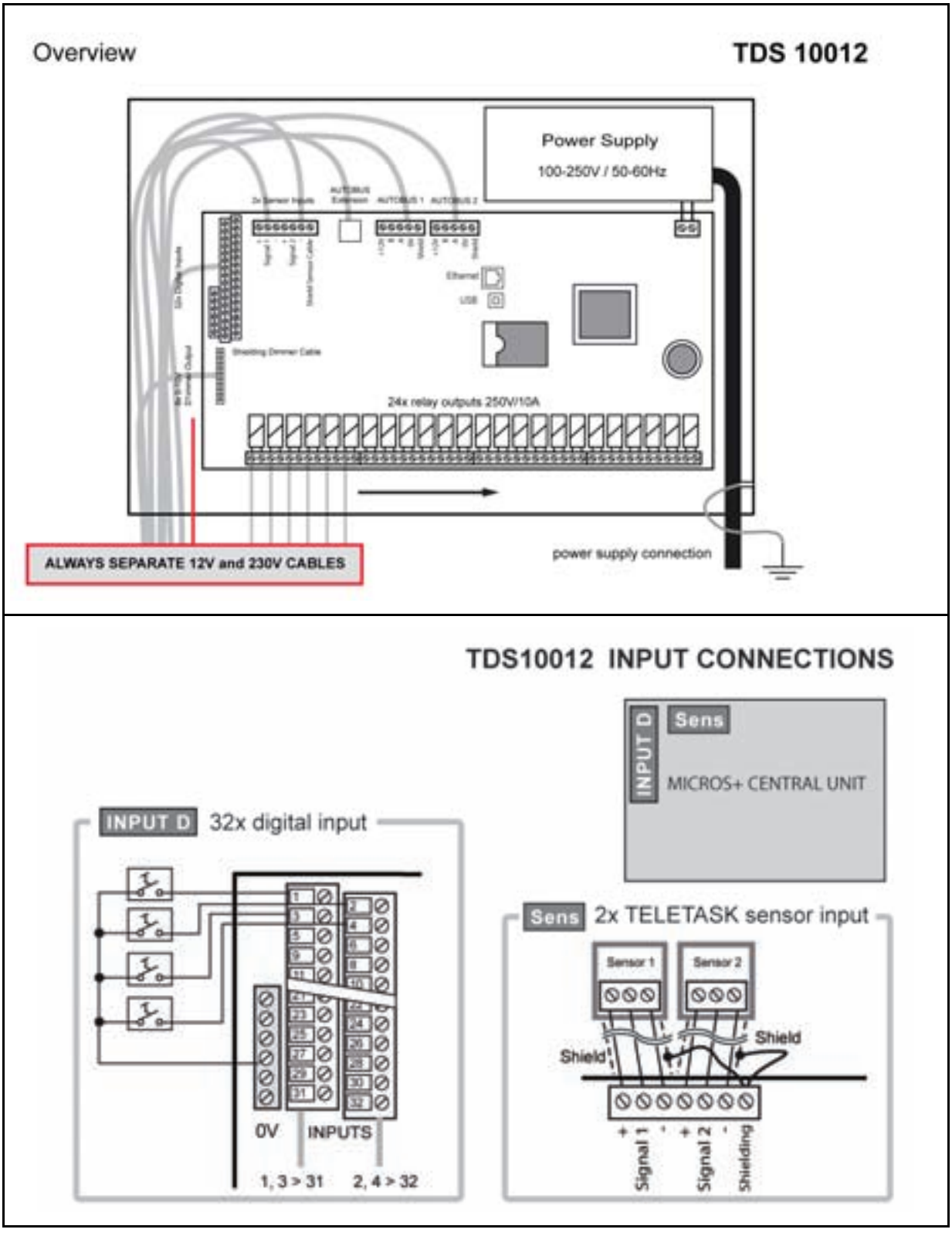
A maximum number of 2 x 31 interfaces can be connected on the two default AUTOBUS connections. Via the AUTOBUS extension interface the MICROS+ can be extended to 4 AUTOBUS connections, supporting up to 4 x 31 = 124 connected AUTOBUS interfaces in total.

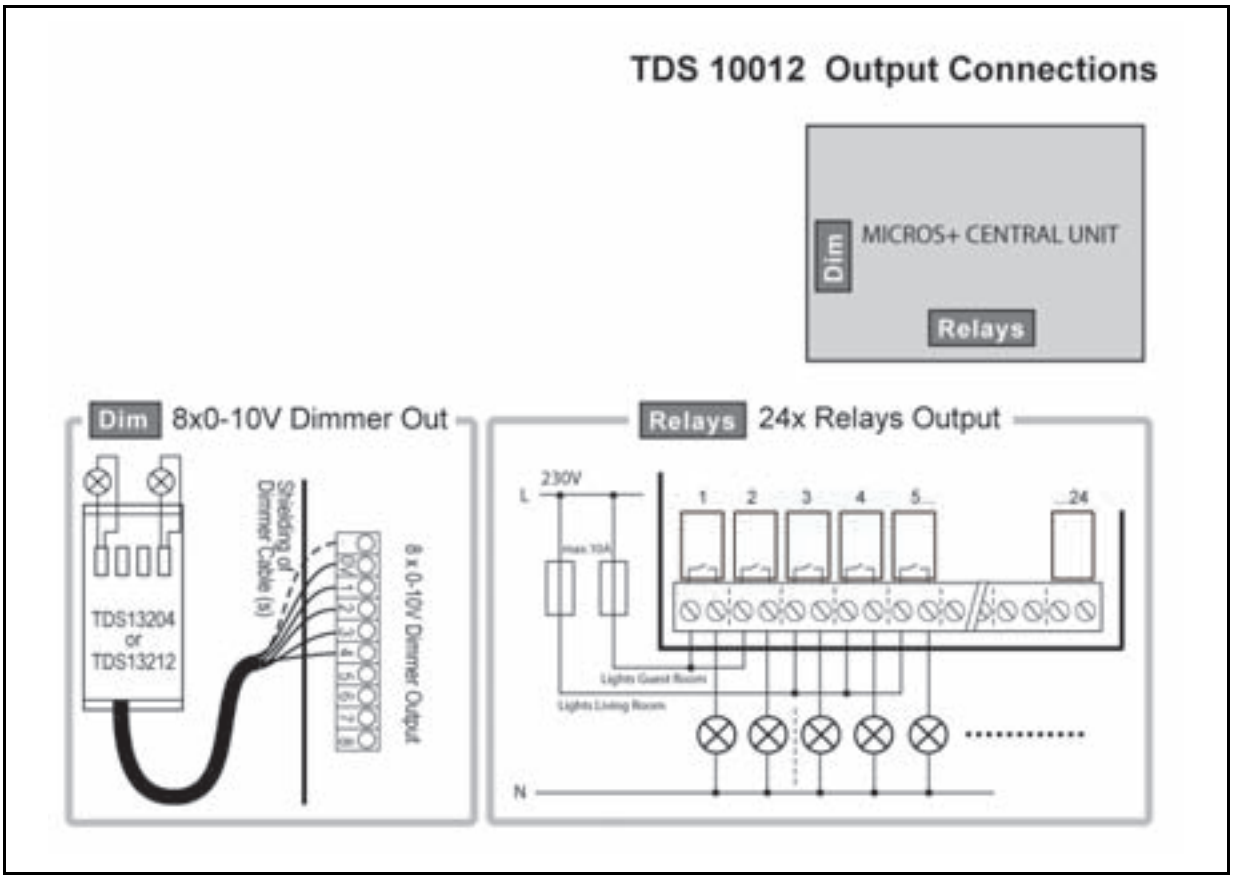
Application:		Home Automation solutions with a maximum capacity of 1500 sensors and actors (inputs and outputs).
Characteristics:	Outputs*	Equipped with 24 internal plug-in relays: I_N = 10A/250VAC cos φ 0,7 I_{HI} = 80Amp (20ms) (see Remark: Inrush Currents) Equipped with 8 internal dimmer control outputs 0-10V Maximum capacity: 500 outputs (the total number of relays outputs + dimmer outputs + motor outputs together is 500) Output impedance (0-10V): 500Ω
	Inputs*	Equipped with: - 32 inputs for voltage free contacts - 2 analog TDS sensor inputs (temperature, light and humidity) - 2 AUTOBUS connections (extendable to 4 using the optional TDS10202 AUTOBUS extension interface) - USB connection - Ethernet connection Each AUTOBUS has a capacity of up to 31 AUTOBUS interfaces (one physical interface may occupy more than one address) AUTOBUS length: max.1000m (about 150m without optional power supply, depending on the used interfaces)
* The system and timer limits and the number of controllable in- and outputs are in relation with the current PROSOFT version. For existing systems it is possible to order an upgrade (TDS1501x) of the central to reach the latest and in this document mentioned characteristics.	System Limits*	500 Local Moods 50 General Moods 50 Rooms 50 Timed Local Moods 50 Sensor Zones 50 Audio Zones. 250 Transparent Functions 250 Timed or Motion Detector Functions 250 Fan Functions 250 Process Functions 500 Clock Actions 500 Flags 500 If-Then-Else Functions 500 Messages and/or Alarms 500 Conditions

		500 Chip Cards and/or Proximity Tags
	Timer Limits*	Fan Function: max. 7200 sec. Timed Function: max. 7200 sec. Motor Function: max. 7200 sec. Timed Local Mood: max. 7200 sec. per step Motion Detector: max. 7200 sec.
	Power Supply	Voltage: 100-250 VAC Frequency: 50Hz/60Hz 45W full load (consumption max. 65W) Own consumption: 0,2A-1,35A
Settings:	Programming	With PROSOFT Suite 3.0 software or higher.
	AUTOBUS terminating resistor	Integrated on the MICROS+ pcb
	Reset	'Reset' Switch: restart the central unit
	IP address	'SW2': Sends the IP address of the central unit to your PC (only in case of communication over Ethernet)
Installation:		To be mounted on a flat surface. Eye level is recommended **Separated cable trunks for the inputs and the outputs:** • Inputs (very low voltage): through the rectangular opening in the lower-left corner. • Outputs (low voltage): through the round break-out holes in the bottom and back plate.
Connections:	Direct Contact Inputs:	Plug-in screw terminal Wires max. 1,5mm² (advised wires 0,5- 0,8mm²)
	Direct Analogue Inputs	Plug-in screw terminal
	AUTOBUS	Plug-in screw terminal
	Relays Outputs	Plug-in screw terminal
	AUTOBUS extension interface	Using the special connection to an external TDS10202 AUTOBUS extension interface (optional).
	USB	USB B connection for direct communication with the PC
	Ethernet	Connection to the LAN network using a RJ45/CAT5 patch cable
	Power Supply	By power cord (supplied with the central unit)
	Earth connection	Always connect the main earth connection to the earth connection of your electrical installation. Use the internal screw in the MICROS+ housing at the lower-right corner.
Power Consumption:		0.3 A max.

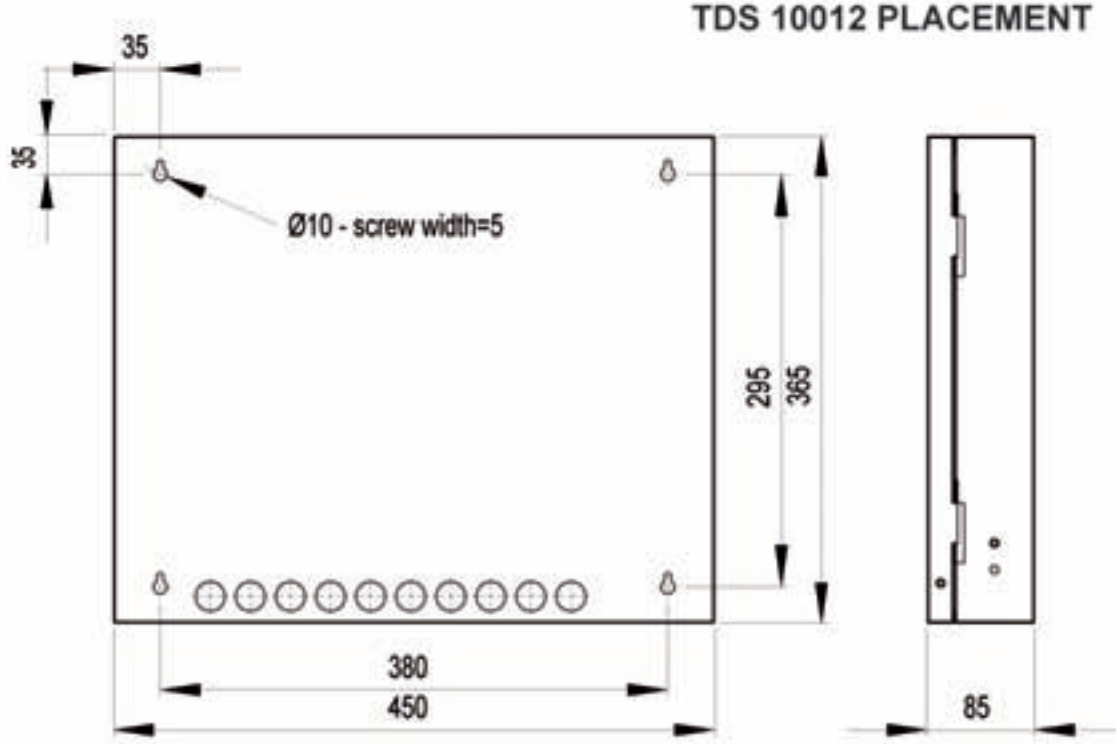
Dimensions:	450 W x 365 H x 80 D (mm)
Net | Gross Weight:	4,9 kg | 6,0 kg

Schematic Drawings:



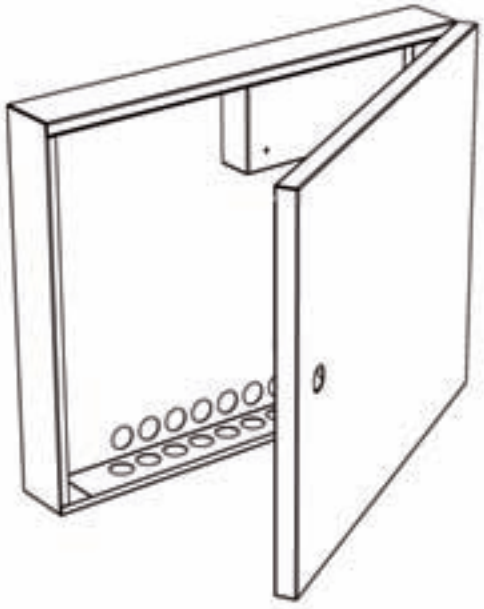

TDS 10012 Output Connections
Dim
MICROS+ CENTRAL UNIT
Relays
Dim 8x0-10V Dimmer Out
TDS13204
or
TDS13212
Shielding of Dimmer Cable (s)
8 x 0-10V Dimmer Output
Relays 24x Relays Output
L
230V
1
2
3
4
5
24
N

TDS 10012 PLACEMENT



ATTENTION:

- Provide a minimum of 10mm above the cabinet for the sliding system.
- Provide a minimum of 20mm on the right side of the cabinet for opening the door.
- Provide enough space below the cabinet for cabling.



NANOS central unit TDS10200

DIN-rail compatible central unit equipped with 2 AUTOBUS connections. Configuration and communication via USB and Ethernet (LAN/WAN) connection with PROSOFT Suite.

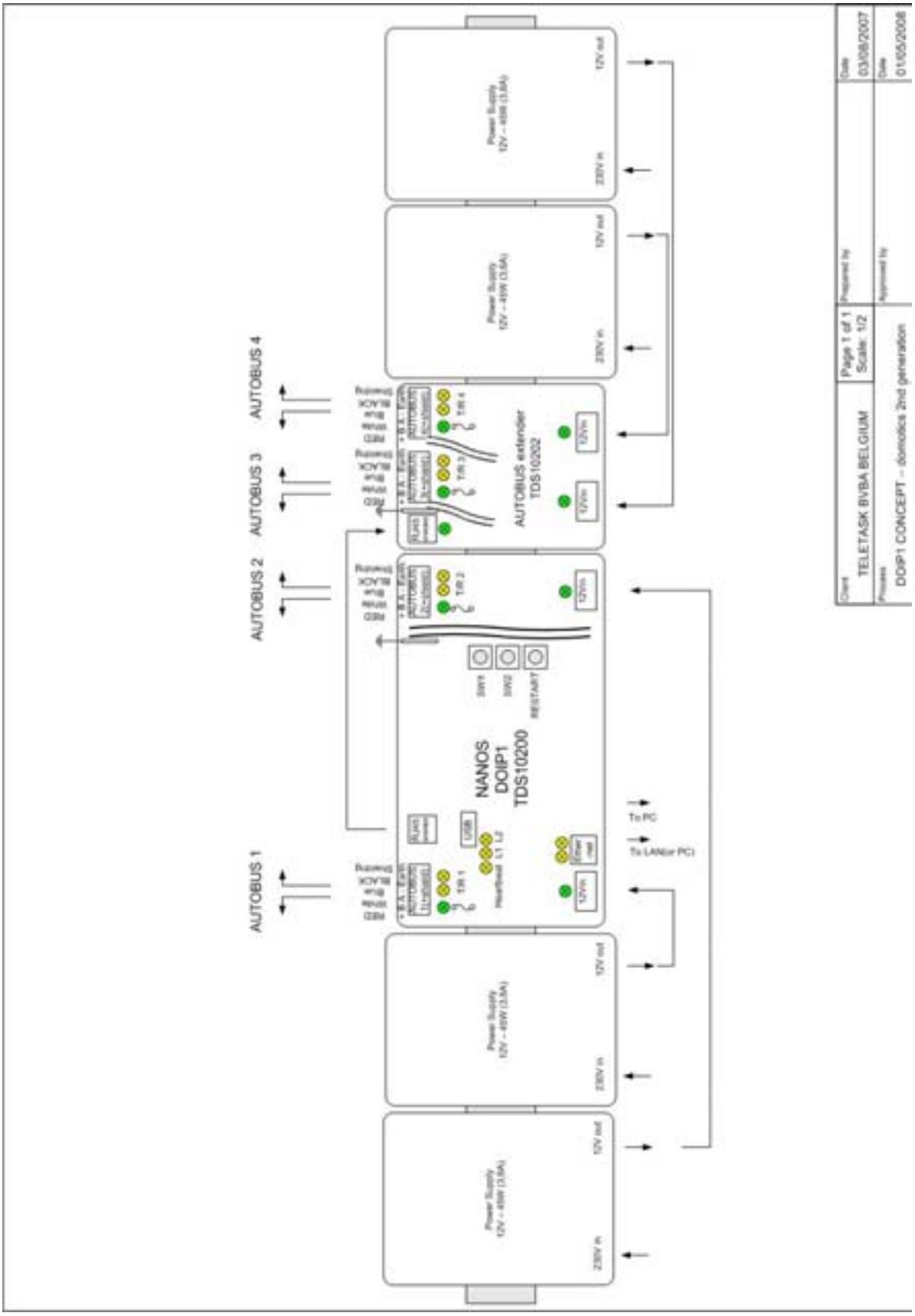
2 x 31 (=62) AUTOBUS interfaces can be connected or 4 x 31 (=124) in combination with the TDS10202 AUTOBUS extention interface.

Up to 10 NANOS units on LAN can behave as one large integrated system with up to 1240 interfaces on 40 x AUTOBUS.

Download the latest version of PROSOFT Suite on www.teletask.eu

Application:		Home and building automation solutions with a maximum capacity of 1500 inputs and outputs (x10 over LAN).
Characteristics:	Outputs*	Maximum capacity: 500 outputs (the total number of relays outputs + dimmer outputs + motor outputs together is 500).
	Inputs*	Equipped with: Two AUTOBUS connections (extendable to 4 using the optional TDS10202 AUTOBUS extension interface). Each AUTOBUS has a capacity of up to 31 AUTOBUS interfaces (one physical interface may occupy more than one address). AUTOBUS length: max.1000m (about 150m without optional power supply, depending on the number and type of connected interfaces).
* The system limits and the number of controllable in- and outputs are in relation with the current PROSOFT version. For existing systems it is possible to order an upgrade of the central unit to reach the latest characteristics.	System Limits*	500 Local Moods 50 General Moods 50 Rooms 50 Timed Local Moods 50 Sensor Zones 50 Audio Zones 250 Transparent Functions 250 Timed or Motion Detector Functions 250 Fan Functions 250 Process Functions 500 Clock Actions 500 Flags 500 If-Then-Else Functions 500 Messages and/or Alarms 500 Conditions 500 Chip Cards and/or Proximity Tags
	Timer Limits*	Fan Function: max. 7200 sec. Timed Function: max. 7200 sec. Motor Function: max. 7200 sec. Timed Local Mood: max. 7200 sec. per step

		Motion Detector: max. 7200 sec.
	Power Supply	2 x 12VDC input (one for each AUTOBUS) AUTOBUS 1 and 2 are galvanically isolated if every AUTOBUS has its own isolated power supply.
Settings:	Programming	With PROSOFT Suite 3.0 software or higher. The latest version of PROSOFT Suite can be downloaded on www.teletask.eu – downloads, using a “end-user” or “professional” log-in (register on www.teletask.eu – login – register).
	AUTOBUS terminating resistor	Integrated on the unit
	Restart	Restarts the central unit
	SW1	No functionality
	SW2	Sends the IP address of the central unit to your PC (only in case of communication over Ethernet)
Installation:		Standard DIN-rail mounted. Eye level is recommended
Connections:	AUTOBUS 1	Plug-in screw terminal (including shielding)
	AUTOBUS 2	Plug-in screw terminal (including shielding)
	AUTOBUS extension interface	Special connection to an optional TDS10202 AUTOBUS extension interface (becomes 4 x AUTOBUS).
	USB	USB B connection for direct communication with the PC
	Ethernet	Connection to the LAN network using a RJ45/CAT5 patch cable
	Power Supply	Plug-in screw terminal
	Earth connection	Always connect this central earth connection to the earth connection of your electrical installation.
Power Consumption:		Consumption is depending of the interfaces connected to the busses (consumption without interfaces: 0,5A bus on the first; 0,1A on the second bus)
Dimensions:		78,5 H x 160 W x 60D mm
Net | Gross weight:		0,240 kg | 0,370 kg
Schematic Drawings:		


AUTOBUS 1
AUTOBUS 2
AUTOBUS 3
AUTOBUS 4
NANOS
DOIP1
TDS10200
AUTOBUS extender
TDS10202
To PC
To LAN(or PC)
TELETASK BVBA BELGIUM
DOIP1 CONCEPT – domotics 2nd generation
Page 1 of 1
Scale: 1/2
03/08/2007
01/05/2008

System Limits

PROSOFT Suite

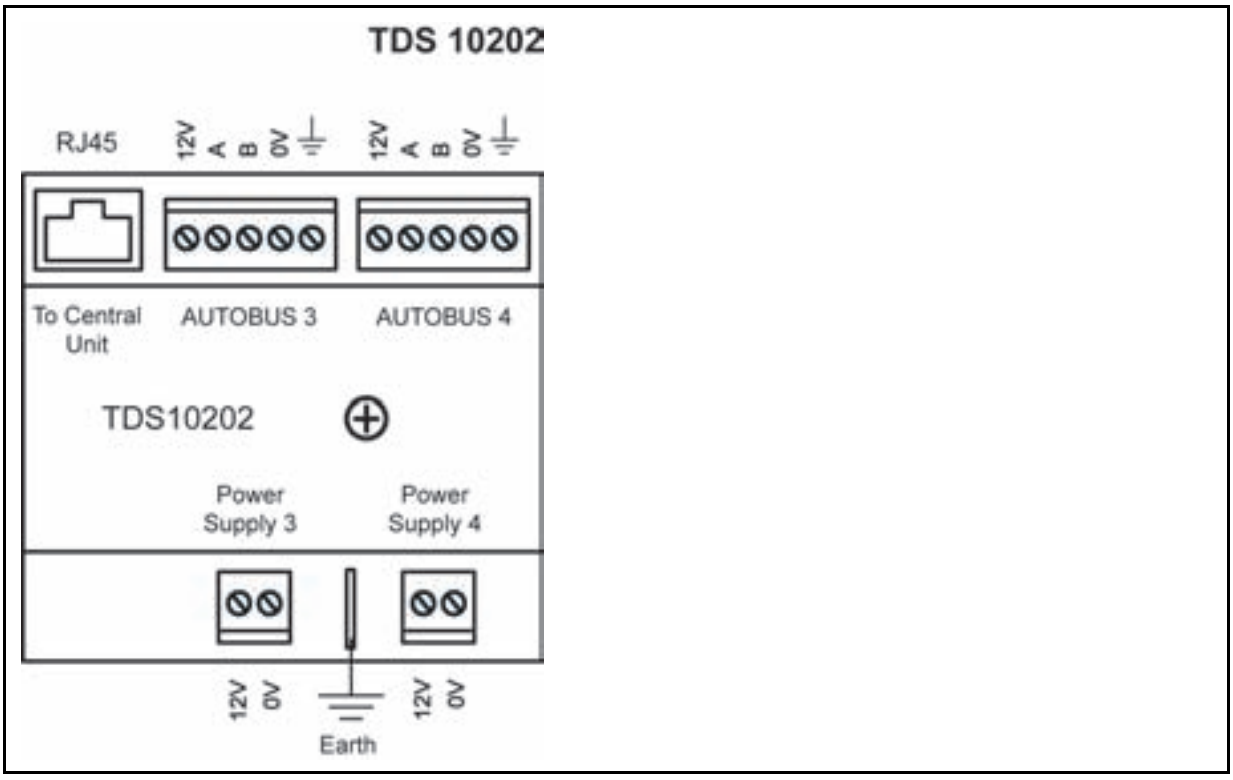
These limits count for 1 central unit. When multiple central units are connected to each other (DoIP concept) you can multiply the limits below by the used number of central units. For example, 10 central units linked together can support up to 10 x 500 = **5000** outputs!

Central Unit	MICROS+	NANOS	
Reference	TDS10012	TDS10200	
PROSOFT Suite	V3.0	V3.0	
Max. number of "I"+"O" Interfaces	124 (4x31)	124 (4x31)	
Max. number of outputs (relays + dimmer + motor) ! Limited by the max. number of "I"+"O" interfaces	500	500	
Timer	250	250	
Transparent	250	250	
Fan	250	250	
Process	250	250	
Step	50	50	
Local Moods	500	500	
Timed Local Moods	50	50	
General Moods	50	50	
Flags	500	500	
If-Then-Else	500	500	
Conditions	500	500	
Messages and Alarms	500	500	
Sensor Zones	50	50	
Audio Zones	50	50	
Clock Actions	500	500	
Chip Cards and Tags	500	500	
Rooms	50	50	

AUTOBUS Extension Interface TDS10202

The AUTOBUS Extension interface is to be used with the MICROS+ and NANOS central unit to extend the number of AUTOBUS connections from two to four (AUTOBUS 3 and 4).

Application:		Extension of the number of AUTOBUS connections for the MICROS+ and NANOS central unit.
Characteristics:	AUTOBUS	Double AUTOBUS. Both busses are galvanic sealed from each other if powered by two separated power supplies 12V DC (available as option ref. TDS10130)
	Power Supply	12V DC (we recommend TDS10130 40W)
Settings:		Via PROSOFT Suite 3.0 or higher
Installation:		DIN rail mounting
Connections:	AUTOBUS	5 Screw terminals per connection (+,-,A,B and shielding)
	Power Supply	Screw terminals
	MICROS+	Via shielded RJ45/CAT5 cable. Supplied with the unit (2 meter). Max. allowed cable length: 2m
Power Consumption:		Not applicable
Dimensions:		81 W x 90 H x 60 D (mm)
Gross weight:		0,200 kg
Schematic Drawing:		


TDS 10202
RJ45
12V
A
B
0V
12V
A
B
0V
To Central Unit
AUTOBUS 3
AUTOBUS 4
TDS10202
Power Supply 3
Power Supply 4
12V
0V
12V
0V
Earth

LATUS Touch Window TDS12001xx

The LATUS touch window has a touch sensitive area, which contains 16 buttons. These buttons can be used to control all kind of domotics functions. Each of the 16 buttons is provided with a user adapted text (f.e. 'central light') and pictogram (f.e. the symbol of a lamp). Each pictogram has a feed-back LED to reflect the status of the button.

Due to this new feature, LATUS can offer the highest flexibility, combined with a beautiful design.

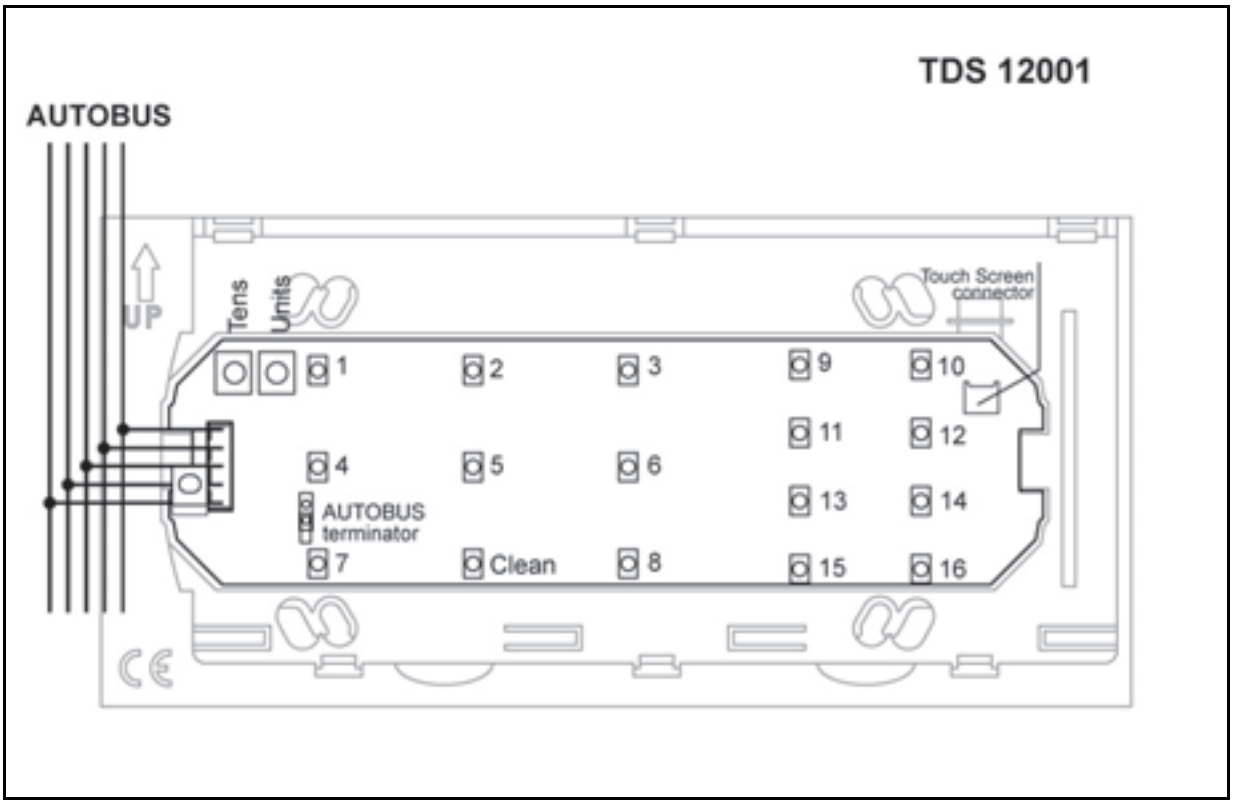
LATUS has a night lighting, IR receiver for remote control, built-in buzzer and a cleaning button.

Several types of front plate can be ordered seperately: TDS90301

Application:		AUTOBUS compatible interface
Characteristics:	General	16 buttons + 1 cleaning button and printable label, slided at the back of the touch sensitive area Infrared receiver for the control of the buttons using the TELETASK remote control. IR buttons 1 to 8 control LATUS button 1 to 8 IR buttons S2 + 1 to 8 control LATUS button 9 to 16 Buzzer.
	Labelling	To be printed on the enclosed printable labels using a standard inkjet printer. Label templates can be downloaded from www.teletask.be
	Order numbers	TDS12001YL Yellow feedback LED's TDS12001WL White feedback LED's TDS12001YB Yellow feedback LED's, B&O compatible. TDS12001WB White feedback LED's, B&O compatible.
Settings:	Buttons functions	With PROSOFT Suite (from version V2.75) Buzzer and IR functionalities are settable in the PROSOFT software from version V2.75 and up.
	AUTOBUS address	Through rotary switches ROT1 + ROT2 The interface takes **two addresses** of the AUTOBUS (the one set with ROT1/ROT2 and the one following this address (set +1))
Installation:		Mounting in a BTicino wall box 506L (brick wall: = ref. TDS90002) or PS567N (plaster board: = TDS90002PB).
Connections:	AUTOBUS	With dedicated connection set (included with the package)
	IR-link	on the AUTOBUS connection (green wire)

Power Consumption:	max. 57 mA
Dimensions:	Front plate: 95 H x 195 W x 7 thick-on wall (mm)
Gross Weight:	0,300 kg

Schematic Drawing:



LATUS Touch Window with Monitor TDS12003

The LATUS Monitor touch window works as a discrete quality colour monitor to be connected with up to two video camera's.

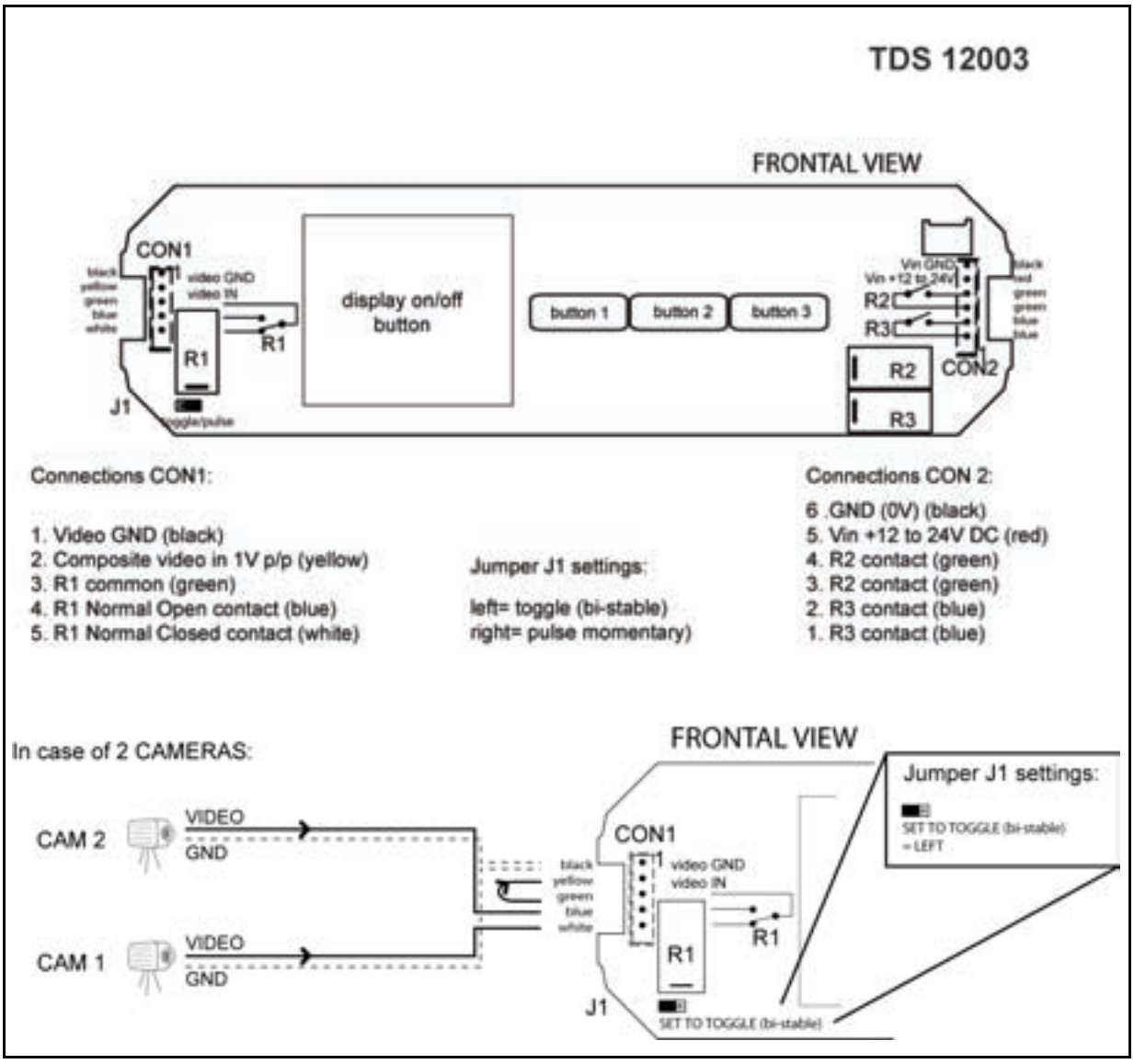
For such controls there are 3 touch sensitive buttons on the touch screen to control a door, gate, light… Button 1 has a change-over contact output (f.i. camera selection). Button 2 and 3 have both normal-open voltage free output contact. Typical applications for these contacts is the control of lights, gates, doors… If you press the video screen, it is switched on/off. When combined with a wireless indoor phone you get a complete video-doorphone system. LATUS Monitor is a stand alone unit which only needs 12-24V DC power supply. If you want to integrate this LATUS Monitor with your home automation system, you can mount a COOKIE interface (TDS12124) in the wall box.

Front panel to be ordered separately (f.i.TDS90103WH)

Application:		Colour monitor for composite video camera's (monochrome and colour).
Characteristics:	General	2.5" colour TFT screen with touch screen. 3 controllable output contacts for multi purpose application. R1 is controlled by push button 1 and is settable as pulse or toggle (change-over) contact. R2 and R3 are controlled by push buttons 2 and 3 and have both pulse contacts (normal open contact)
	Labelling	To be printed on the enclosed printable labels using a standard inkjet printer. Label templates can be downloaded from www.teletask.be
Settings:		Jumper setting for a relay 1 (output change-over contact pulse or toggle setting). This contact can f.i. be used to switch between two connected camera's.
Installation:		Mounting in a BTicino wall box 506L (brick wall=ref TDS90002) or PS567N (plaster board walls = ref TDS90002PB). Front panel to be ordered separately (f.i. TDS90301WH).
Connections:		12-24V DC power supply input **** mA Video input: composite video 1V p/p. Relay 1: change-over contact max 24 V/1A. Relay 2: normal open contact max 24V/1A. Relay 3: normal open contact max 24V/1A.
Power Consumption:		Maximum 120mA @ 12VDC / 65mA @ 24VDC (with display off and relays off: 20mA @12VDC / 6mA @ 24VDC)
Dimensions:		Front plate: 95H x 195W x 7 on-wall thickness (mm)

Net | Gross Weight: 0,140 kg | 0,150 kg

Schematic Drawing:



LATUS Touch Window with LCD display TDS12015xx

The LATUS touch window with LCD display is an AUTOBUS interface for the user friendly control of heating/cooling and the control of several domotics functions. The first 8 of 16 buttons are preset with thermostat functionalities, but they can freely set, like the 8 other buttons to any domotics functionality.

The LCD with white dimmable backlight displays the settings of the temperature, humidity and light sensors or messages and alarms in very readable gray characters.

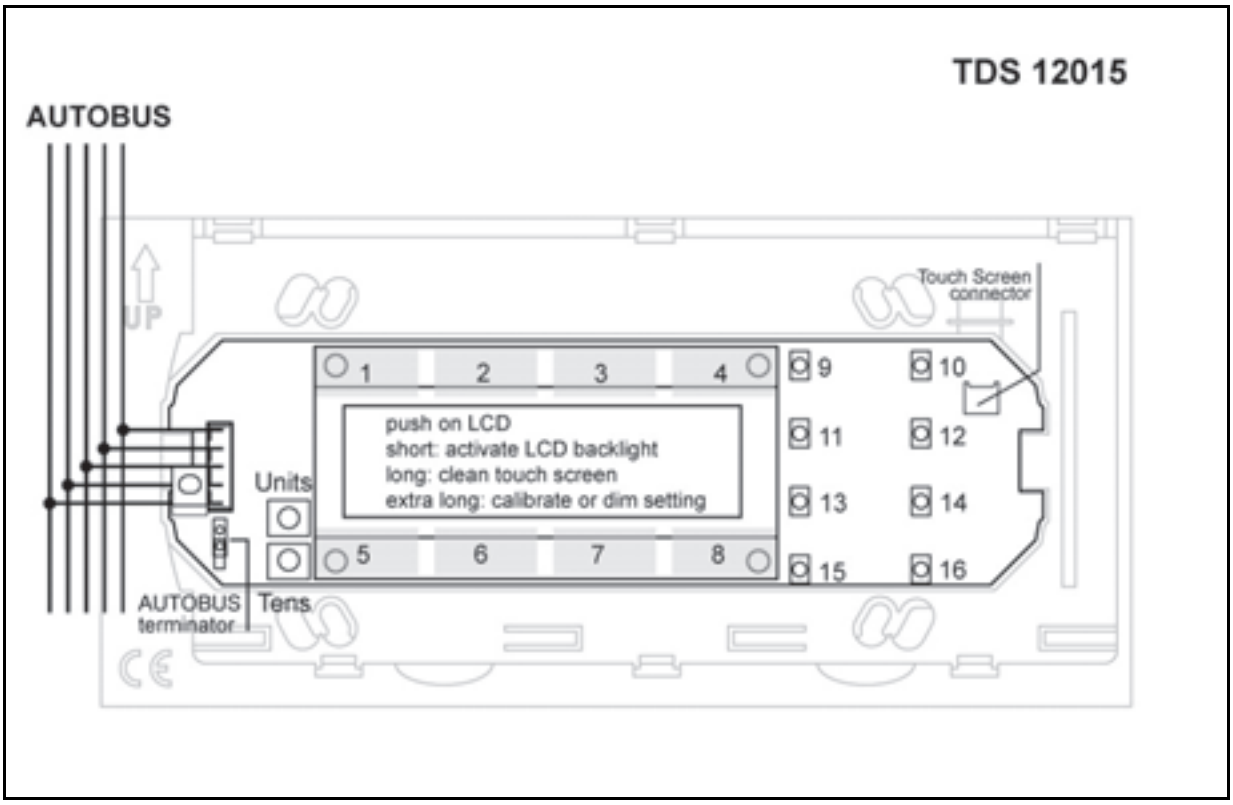
Every button can have a personal adapted inscription and/or an icon. The buttons 9-16 are equipped with an integrated feedback LED.

The LATUS with LCD display also has a night lighting, IR receiver for remote control, built-in buzzer and a cleaning button,

Application:		AUTOBUS compatible interface with LCD display.
Characteristics:	General	White LCD Display with 2x16 grey characters. 16 buttons + 1 cleaning button and printable label, slided at the back of the touch sensitive area Infrared receiver for the control of the buttons using the TELETASK remote control. IR buttons 1 to 8 control LATUS button 1 to 8 IR buttons S2 + 1 to 8 control LATUS button 9 to 16 Buzzer.
	Labeling	To be printed on the enclosed printable labels using a standard inkjet printer. Label templates can be downloaded from www.teletask.be
	Order numbers	TDS12015YL Yellow feedback LED's TDS12015WL White feedback LED's TDS12015YB Yellow feedback LED's, B&O compatible. TDS12001WB White feedback LED's, B&O compatible.
Settings:	Buttons functions:	With PROSOFT Suite (EEprom V2.75) Buzzer and IR functionalities are settable in the PROSOFT software from version V2.80
	AUTOBUS address	Through rotary switches ROT1 + ROT2 The interface takes **two addresses** of the AUTOBUS (the one set with ROT1/ROT2 and the one following this address (set +1)
Installation:		Mounting in a BTicino wall box 506L (brick wall: = ref. TDS90002) or PS567N (plaster board: = TDS90002PB).
Connections:	AUTOBUS	With dedicated connection set (included with the package)

IR-link	on the AUTOBUS connection (green wire)
Power Consumption	50 mA
Dimensions:	Front plate: 95 H x 195 W x 7 thick-on wall (mm)
Gross Weight:	0,34 kg

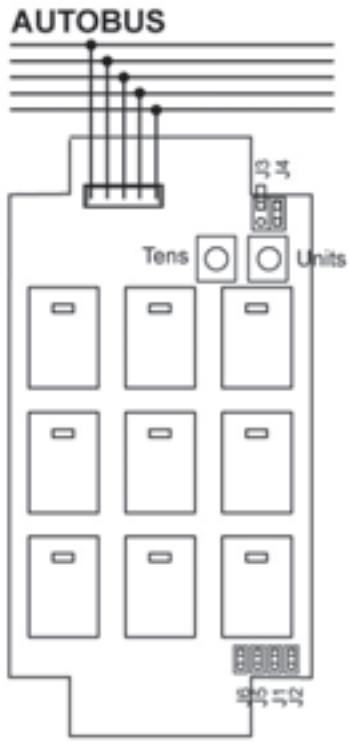
Schematic Drawing:



Touch panel with 8 buttons TDS12008xx

Touch panel with 8 buttons with led indicators, built-in infrared receiver, buzzer and TELETASK IR-link output. The front panel colour can be white or pearl nickel (metal look).

Application:		User interface to be connected on the AUTOBUS
Characteristics:	General	8 buttons (with optional custom engraving of max. 2x7 characters) Infra red receiver.
	Order numbers	TDS12008WH white front TDS12008PN pearl nickel front TDS12008WB white front; B&O IR compatible TDS12008PB pearl nickel front; B&O IR compatible
Settings:	Functions	With PROSOFT Suite
	AUTOBUS address	by rotary switches Tens + Units
	Jumpers	JP1&JP2 baud rate (normal 9600) JP3 terminating resistor (normal out) JP4 night lighting (normal on) JP5 IR-receiver (normal on) JP6 buzzer (normal on)
Installation:		To be mounted in a standard double Belgian wall box, vertically mounted on top of each other.
Connections:	AUTOBUS	By enclosed AUTOBUS connection set
	IR-link	By enclosed AUTOBUS connection set (green wire)
Power Consumption		max. 103 mA
Dimensions:	Front	138 H x 79 W x 3 D (mm)
Gross Weight:		0,320 kg
Schematic Drawing:		



TDS 12008

JUMPER SETTINGS

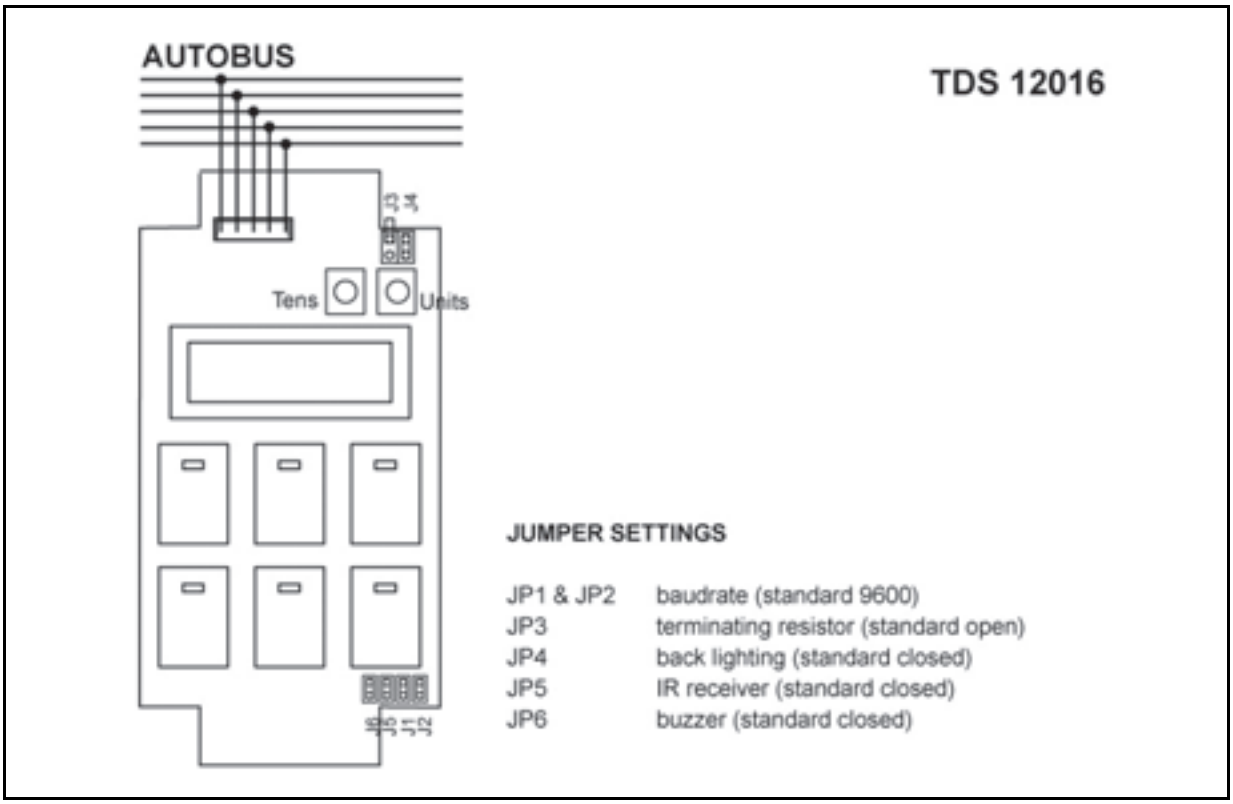
JP1 & JP2	baudrate (standard 9600)
JP3	terminating resistor (standard open)
JP4	back lighting (standard closed)
JP5	IR receiver (standard closed)
JP6	buzzer (standard closed)

Touch panel with LCD-display TDS12016xx

Touch panel TELETASK design, with 5 buttons with led indication in each button. Provided with IR-link output, buzzer and LCD-screen with back-lighting (2 x 16 characters). The display is to be used for displaying temperatures, humidity, light and messages and alarms. The 5 buttons are preprogrammed to be used for temperature control.

Application:		Interface to be connected on the AUTOBUS. Displays the data coming from the coupled sensor inputs: temperature; light and humidity. Change the data from clocks, temperature etc.
Characteristics:	General:	5 buttons (max 2x7 characters gravure on demand). Infrared receiver. Illuminated LCD display: 2 rows each having 16 characters.
	Order numbers:	TDS12016WH white front TDS12016PN pearl nickel front TDS12016WB white front; B&O IR compatible TDS12016PB pearl nickel front; B&O IR compatible
Settings:	Functions:	With PROSOFT Suite
	AUTOBUS address:	by rotary switches Tens + Units
	Jumpers:	JP1&JP2 baud rate (normal 9600) JP3 terminating resistor (normal out) JP4 night lighting (normal on) JP5 IR-receiver (normal on) JP6 buzzer (normal on)
Installation:		To be mounted in a standard double Belgian wall box, vertically mounted on top of each other.
Connections:	AUTOBUS:	By enclosed AUTOBUS connection set
	IR-link	By enclosed AUTOBUS connection set (green wire)
Power Consumption		max. 74 mA
Dimensions:	Front	138 H x 79 W x 3 D (mm)
Gross Weight:		0,320 kg

Schematic Drawing:



Touch panel with 5 buttons TDS12005xx

Touch panel with 5 buttons, design “BTicino”, with led -indication in the buttons, built-in IR receiver, IR-link and buzzer.

3 extra connections at the back, makes it possible to connect standard push-buttons.

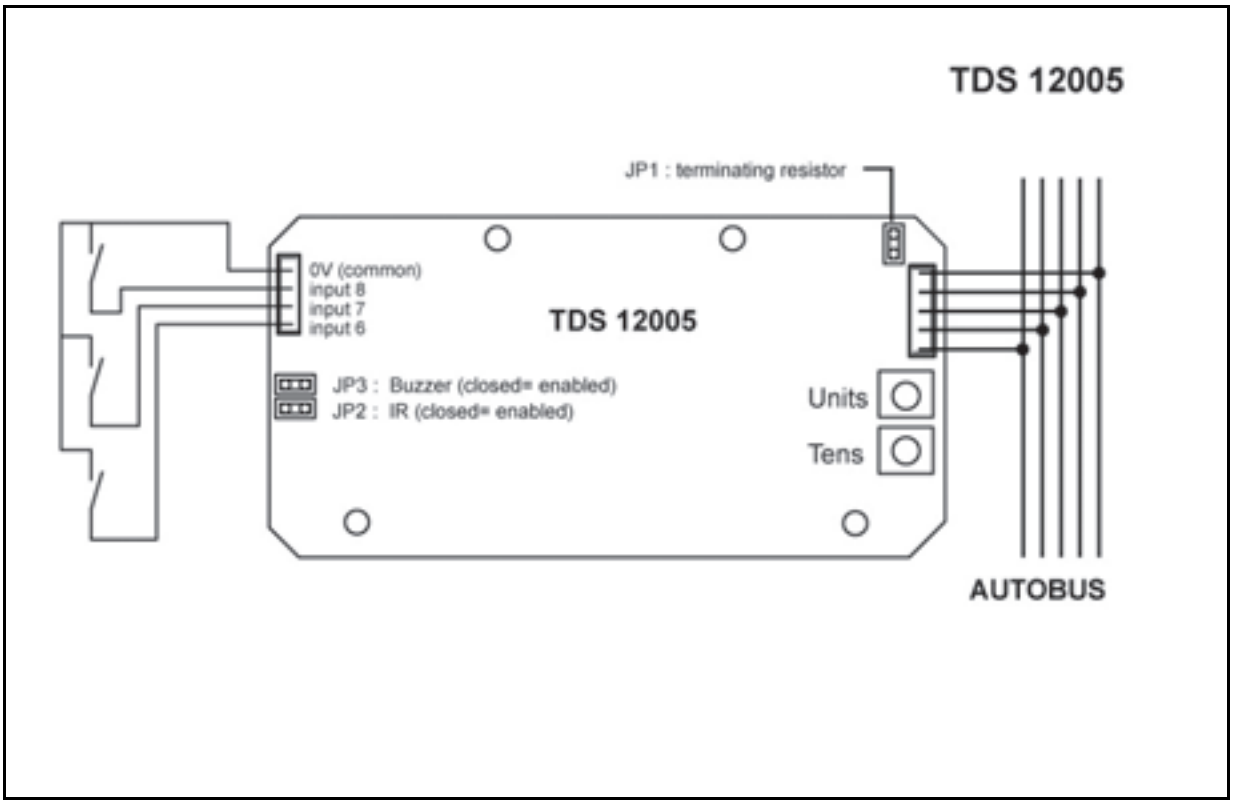
To be used together with the necessary “BTicino” parts (LIGHT or LIVING int. series).

To be used with the frames and front plates Living International or Light (not included)

Application:		User interface to be connected on the AUTOBUS
Characteristics:	General	5 buttons (with optional custom engraving of max. 2x7 characters) Infra red receiver. 3 extra inputs for external voltage free contacts (for example push buttons)
	Order numbers	TDS12005WH white front TDS12005GY grey front TDS12005PN pearl nickel front TDS12005WB white front; B&O IR comp. TDS12005GB grey front; B&O IR comp. TDS12005PB pearl nickel front; B&O IR comp.
Settings:	Functions	With PROSOFT Suite
	AUTOBUS address	by rotary switches Tens + Units
	Jumpers	JP1 terminating resistor (normal out) JP2 IR-receiver (normal on) JP3 buzzer (normal on)
Installation:		To be mounted in a BTicino L4704 frame To be used with BTicino 504 E wall box
Connections:	AUTOBUS	By enclosed AUTOBUS connection set
	IR-link	By enclosed AUTOBUS connection set (green wire)
	Extra inputs	By enclosed connection set
Power Consumption:		max. 68 mA
Dimensions:	Wall Box	504E (BTicino): 130 W x 71 H x 48 D (mm).
	Frame	L4704 (BTicino): 141 W x 61 H (mm).
	Front	Different sizes are available

Gross Weight: 0,360 kg

Schematic Drawing:



Touch panel with VFD-display TDS12017xx

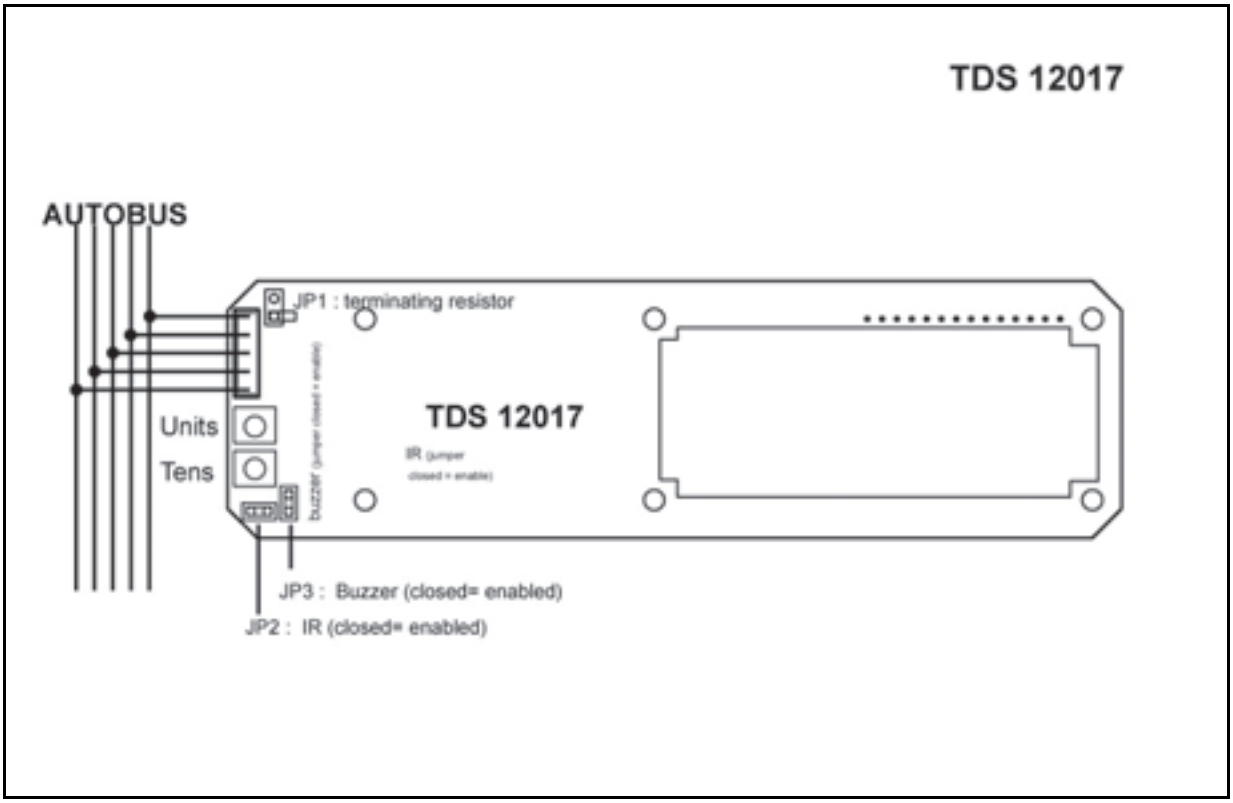
Touch panel with 5 buttons, for BTicino LIGHT and LIVING front plates, equipped with led's in every button, infra red receiver, IR-LINK output, buzzer and large VFD display (2 x 16 characters) for the read-out of different values (temperatures, humidity levels, light levels and messages. The 5 buttons are preprogrammed to be used for temperature control.

Application:		User interface to be connected to AUTOBUS. Display for viewing sensor levels and messages. Modification of set points, clock settings, etc...
Characteristics:	General	5 buttons (with optional custom engraving of max. 2x7 characters.) IR receiver. VFD (vacuum fluorescent) display, 2 lines x 16 characters
	Order numbers	TDS12017WH white front TDS12017GY grey front TDS12017PN pearl nickel front TDS12017WB white front; B&O compatible TDS12017GB grey front; B&O compatible TDS12017PB pearl nickel front; B&O comp.
Settings:	Functions	With PROSOFT Suite
	AUTOBUS address	rotary switches Tens + Units
	Jumpers	JP1 terminating resistor (normal out) JP2 IR receiver (normal on) JP3 buzzer (normal on)
Installation:		Mounting in BTicino frame L 4707 Mounting in BTicino wall box 506L
Connections:	AUTOBUS	By enclosed AUTOBUS connection set
	IR-link	By enclosed AUTOBUS connection set (green wire)
Power Consumption:		Max. 260 mA, max. 200mA starting from serial number xxxxx0832.
Dimensions:	Wall Box	506L (BTicino) : 185 W x 77 H x 48 D (mm)
	Frame	L4707 (BTicino): 195 W x 71 H (mm)

Front	Different sizes are available

Net | Gross Weight: 0,360 kg

Schematic Drawing:



AURUS Touch panel TDS12021xx

The AURUS features a hardened glass touch panel with 4 buttons. It comes in 4 different colors: WHITE, BLACK, ALUMINUM GREY PEARL and GOLD PEARL.

The buttons have white LED lights and a click sound for clear and instant feedback.

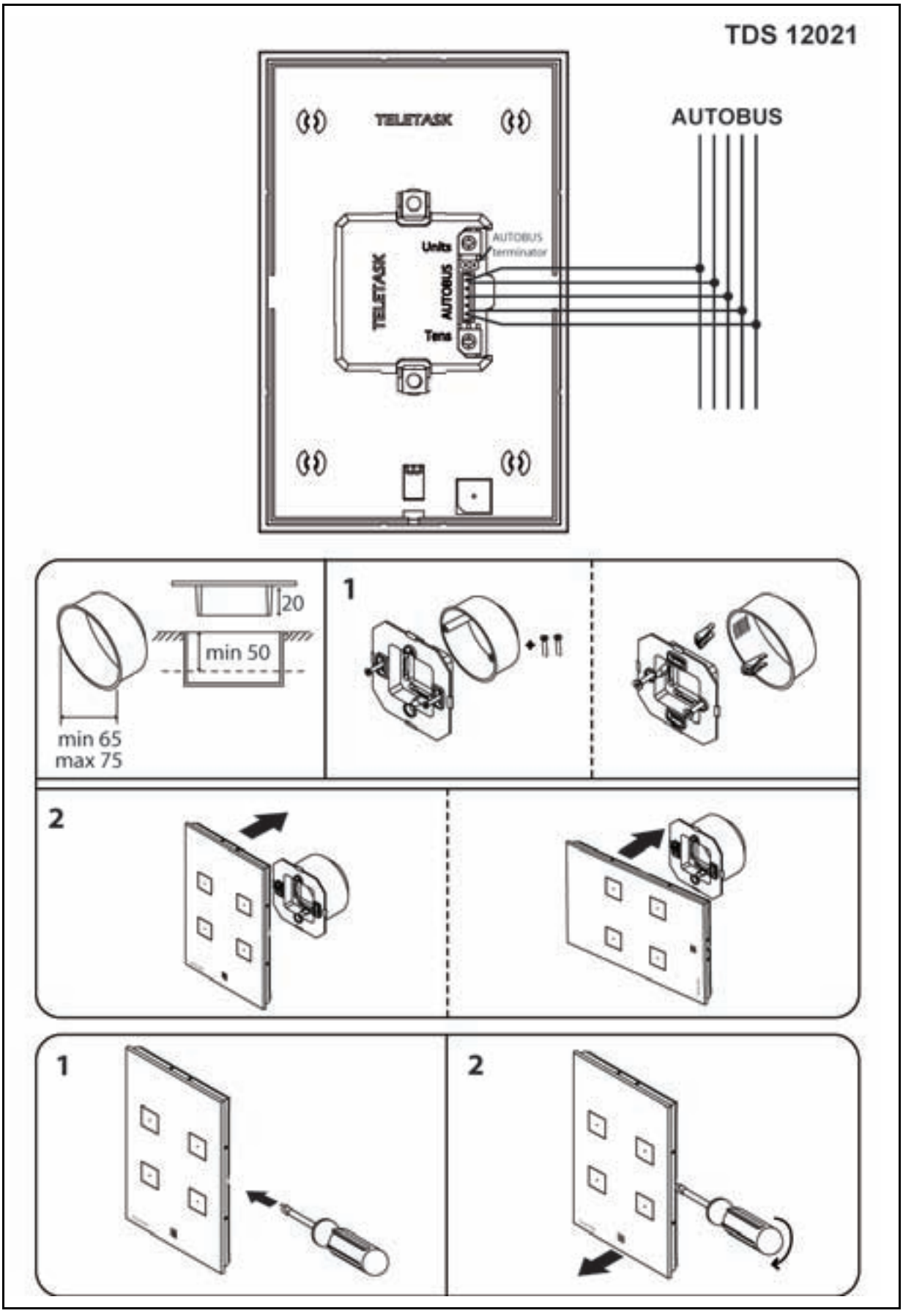
Soft night light and a build-in IR make sure you command your AURUS in any cirucomstance.

The AURUS is mounted in a single wall-box TDS900000 (brick walls) or TDS90000PB (Plaster board walls) with screws or or claws (claws included in package). To be placed in vertical position but can also be placed in horizontal position.

Special version: order ref. TDS12021xB for version with B&O IR-receiver in stead of standard IR-receiver.

Application:		AUTOBUS compatible interface
Characteristics:	General	Natural glass front plate, ceramic background printed and thermal hardened 4 capacitive sensitive buttons Infrared receiver Temperature sensor Buzzer
	Order numbers	TDS12021WH white TDS12021BL black TDS12021AU gold TDS12021LG aluminium-grey TDS12021WB white +B&O receiver * TDS12021BB black + B&O receiver * TDS12021AB gold + B&O receiver * TDS12021LB aluminium-grey + B&O receiver * *B-versions have built-in B&O IR-receiver instead of standard IR receiver.
Settings:	Button functions	Via PROSOFT Suite T° sensor functions supported starting with PROSOFT Suit V3.2 or higher.
	AUTOBUS address	Via rotary switches ROT1 + ROT2 (“Tens” & “Unit”) AURUS uses only 1 AUTOBUS address.
	Jumpers	AUTOBUS terminating resistor (only to be set when last interface on the bus cable)
Installation:		Mounting in a standard single rectangular or round wall box for brick- or plaster board walls. TELETASK order reference: TDS90000 (brick walls)-TDS90000PB (plaster board walls).
Connections:	AUTOBUS	With dedicated connection set (included with the package).

	IR-link	On the AUTOBUS (green wire).
Power Consumption:		Max. 18 mA
Dimensions:	Front plate	90W x 140 H x 11 thickness on wall (mm)
Net | Gross Weight:		0,300 kg | 0,350 kg
Schematic Drawing:		


TDS 12021
TELETASK
AUTOBUS
Units
AUTOBUS terminator
AUTOBUS
Term
20
min 50
min 65
max 75
1
2
1
2

AURUS-OLED Glass touch panel – 4x8 buttons (4 pages) TDS12022xx

AURUS-OLED is a glass touch panel with eight capacitive approach sensitive buttons. It features a hidden menu structure with four fully customizable pages (two pages are preprogrammed as a audio and a temperture control page).

There are eight (night illuminated) feedback LED's, a built-in infrared receiver for remote control, a buzzer and a built-in temperature sensor for room temperature control.

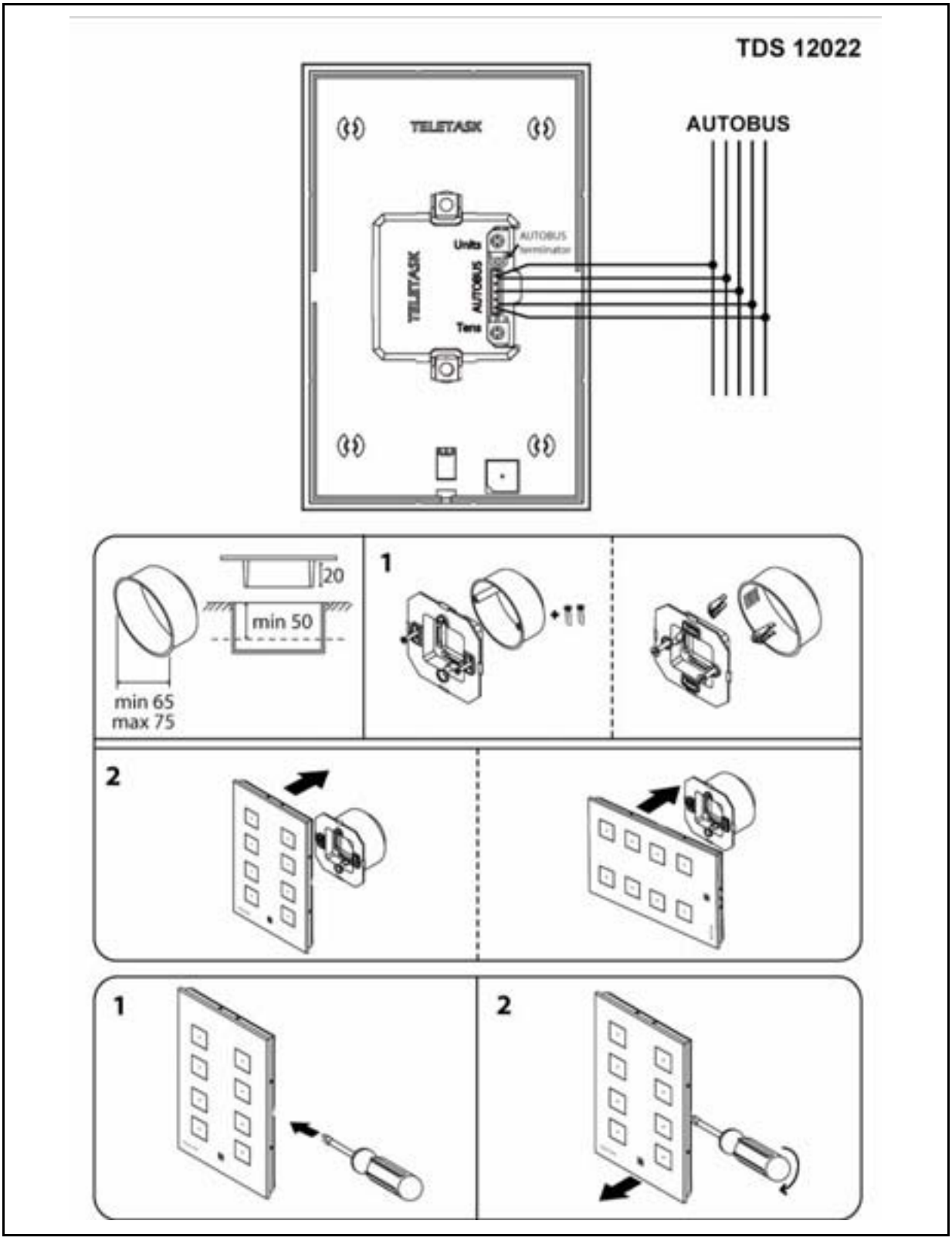
AURUS is available in black, white, gold and aluminium grey versions.

The unit can be mounted in a single wall box, in vertical or horizontal position, the choice is up to you. Even after installation the positioning can be changed in seconds, any time you like.

Application:		AUTOBUS compatible interface
Characteristics:	General	Natural glass front plate, ceramic background printed and thermal hardened 8 capacitive sensitive buttons Hidden menu structure (3 extra pages of which 2 preprogrammed as audio and temperature page – every page is customizable from out of PROSOFT) Hidden button for cleaning function (press long on middle hidden menu button) Build-in infrared receiver for remote control (TDS12051, TDS12502) Build-in temperature sensor for room temperature control (floor heating, ventilation heating and air-conditioning). Buzzer
Settings:	Configuration	Via PROSOFT Suite T° sensor functions supported starting with PROSOFT Suit V3.2 or higher.
	AUTOBUS address	Via rotary switches ROT1 + ROT2 ("Tens" & "Unit") AURUS uses only 1 AUTOBUS address.
	Jumpers	Terminating resistor. To be used when the interface is last interface on the AUTOBUS cable.
Installation:		Mounted in a single wall box. For brick walls, ref. TDS90000 and for plaster board walls ref. TDS90000PB. To be placed in vertical position but can also be placed in horizontal position. To change the orientation after installation, place a flat screw driver in the provided slot.
Connections:	AUTOBUS	AUTOBUS connector set supplied with this unit.
	IR-link	On the AUTOBUS connection (green wire).
Power Consumption:		Max. 105 mA

Dimensions:	90W x 140H x 11 thickness on wall (mm)
Net | Gross Weight:	0,320 kg |0,400 kg

Schematic Drawings:



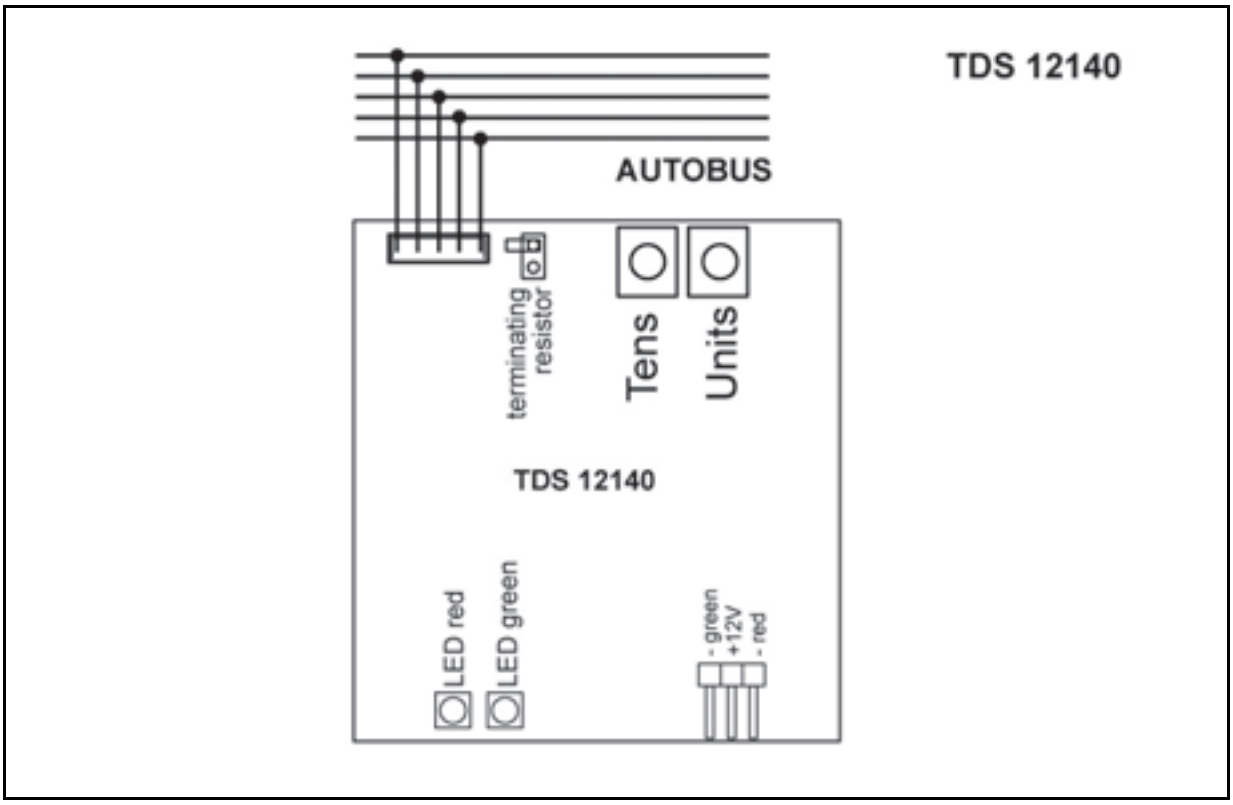
Chip card reader TDS12140xx

TELETASK design chip card reader to be plugged on the AUTOBUS for safe access control of the house.

The different chip cards are easy and safe programmable on every reader: unlimited access, limited access, common access...

Beside these functionalities there are for special applications passkey chip cards available.

Application:		For safe access control in houses and service flats.
Characteristics:	Order numbers	TDS12140WH white front plate TDS12140PN pearl nickel front plate
Settings:	AUTOBUS address	Through rotary switches Tens + Units
	Programming	Reader With PROSOFT Suite Chip card by reader
Installation:		Built in version for interior applications: use extra deep Belgian wall box. Built in version for exterior applications: the chip card reader is integratable in the Siedle housing (optional TDS12144).
Connections:	AUTOBUS	By enclosed AUTOBUS connection set
Power Consumption:		max. 22 mA
Dimensions:	Front	82 H x 82 W x 8 D(mm)
	Built-In	65 D (mm)
Gross Weight:		0,325 kg
Schematic Drawing:		


TDS 12140
AUTOBUS
terminating resistor
Tens
Units
TDS 12140
LED red
LED green
- green
+12V
- red

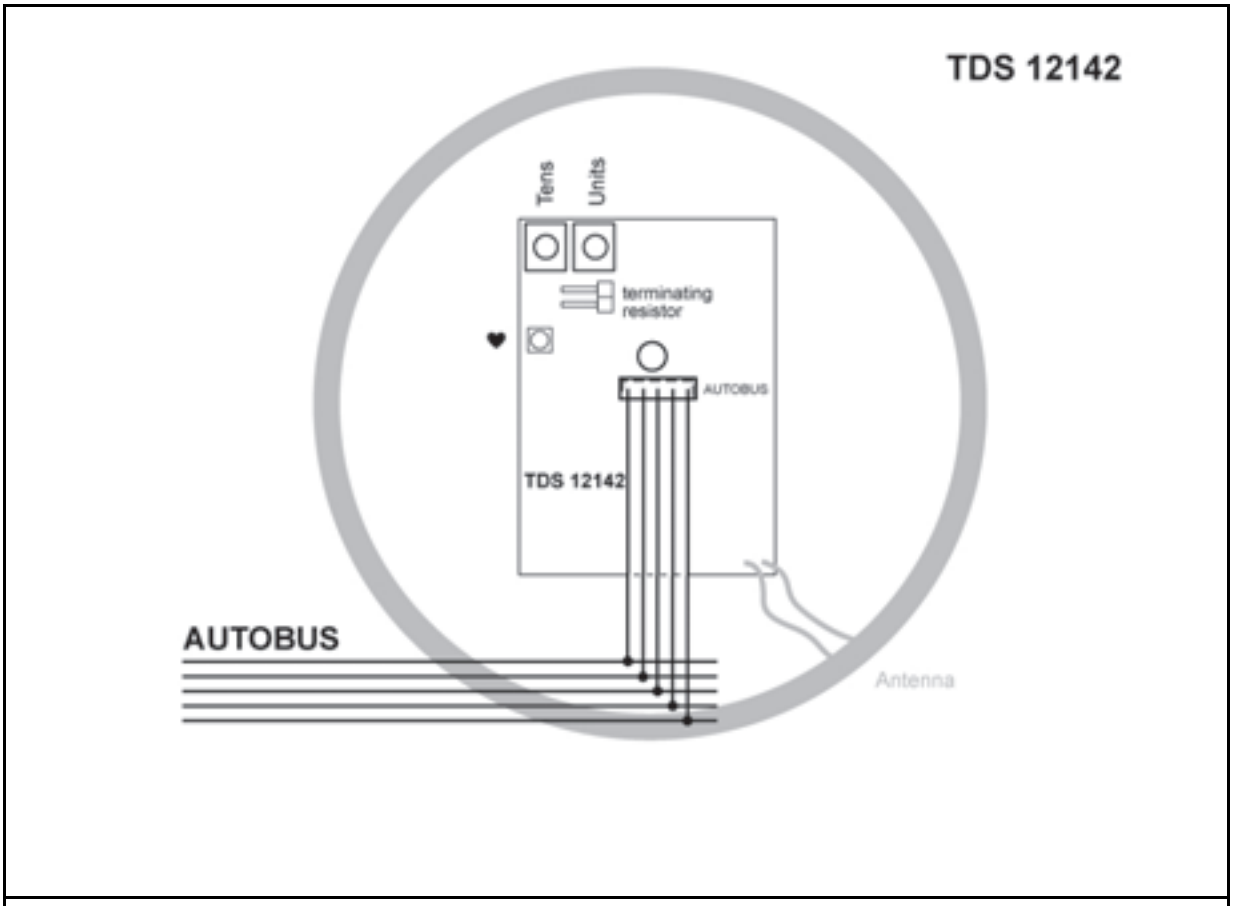
Proximity reader TDS12142

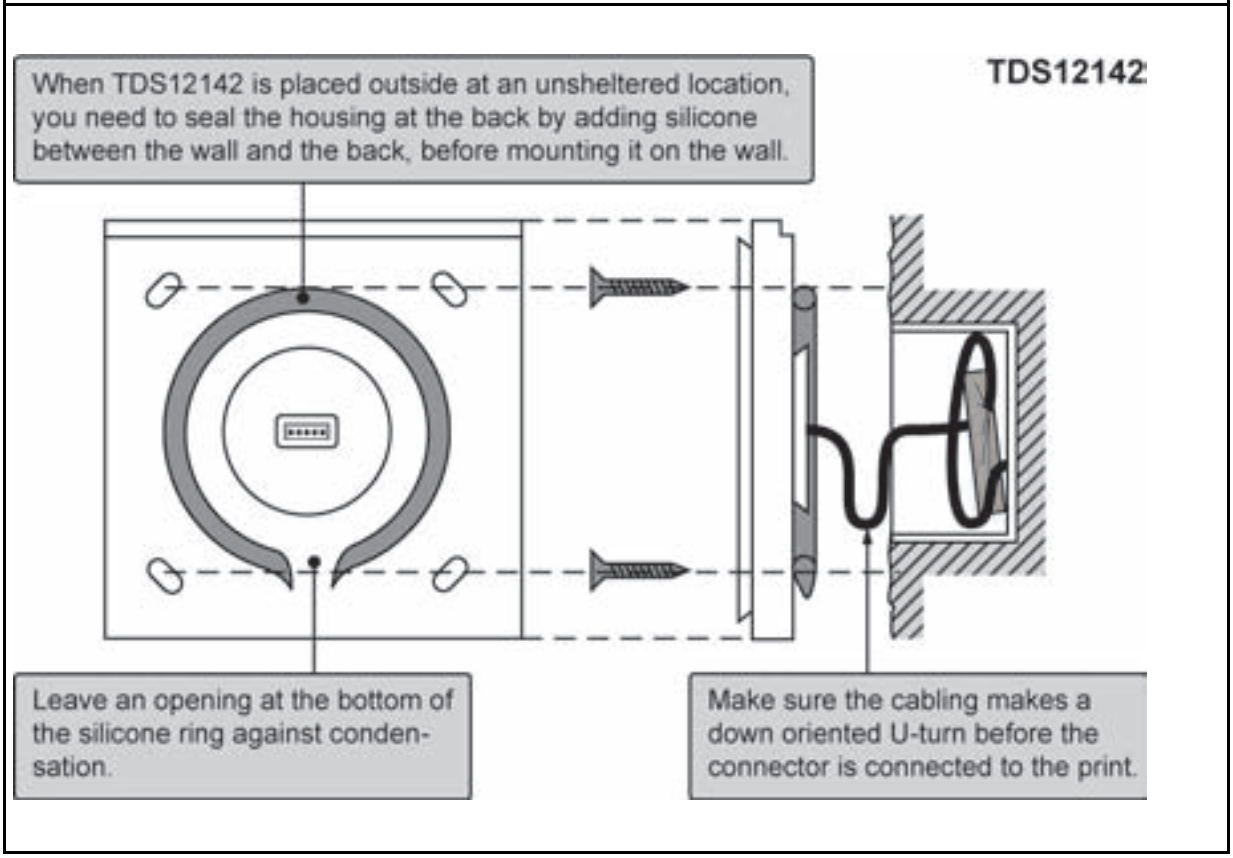
The TELETASK proximity reader is an AUTOBUS interface for secured wireless access control. This means a higher user friendliness thanks to the fact that there is no precise handling needed to put the card in the reader to make a necessary hardware contact. Hold the proximity card or key holder TAG in front of the proximity reader to get access and/or generate any other domotic function.

Thanks to the integration with the domotics system, the function is not limited to the opening of a door, but can be combined with any other domotics function (when entering the house, the door opens, the lights are activated, the temperature settings can be changed, music starts playing, etc...

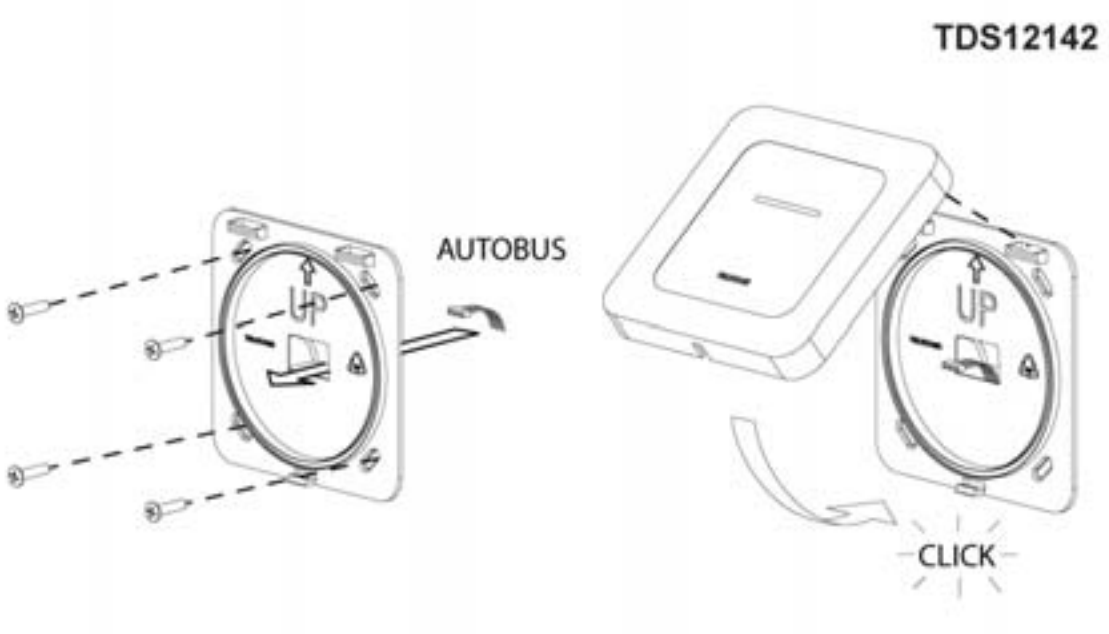
Application:		For a safe contactless access control in combination with any other control of a domotic function. Cards and key holder TAGs can have limited access: between certain hours of the days, only on certain days or any other condition that you want.
Characteristics:		The proximity reader fits the needs and protection for indoor installation. In outdoor application it is necessary to seal the back with silicone (between back and wall) against water infiltration at the AUTOBUS connector. Adding, deleting and changing the access parameters of each proximity card/TAG is possible using PROSOFT V2.74 or higher (with the integrated CARDSOFT software).
Settings:	AUTOBUS address	Through rotary switches Tens + Units
	Programming	Proximity reader With PROSOFT V2.74 or higher Proximity card With the reader
	LED	TDS12142 Connected: LED blinks slowly Connection error: LED blinks fast Card or TAG detected: LED will be ON for 2 sec.
Installation:		On-wall mounting in front of any wall box or hole, to contain the AUTOBUS cable and connector. When the proximity reader is placed in unsheltered outside locations it is necessary to add silicone between the wall and the housing as shown in the mounting drawing.
Connections:	AUTOBUS	Through enclosed AUTOBUS connector
Power Consumption:		Max. 75 mA
Dimensions:		115 H x 115 W x 15 D (mm) (on top of the wall)
Net | Gross Weight :		0,137 | *** kg

Schematic Drawings:

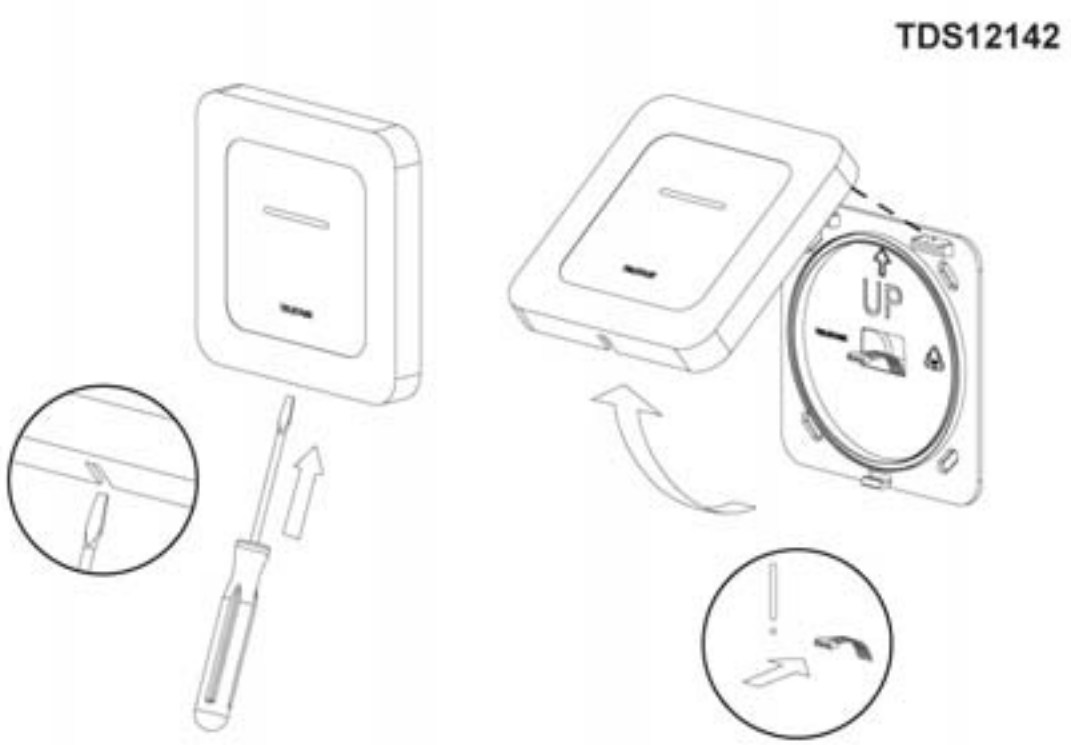




INSTALLATION



DISASSEMBLY

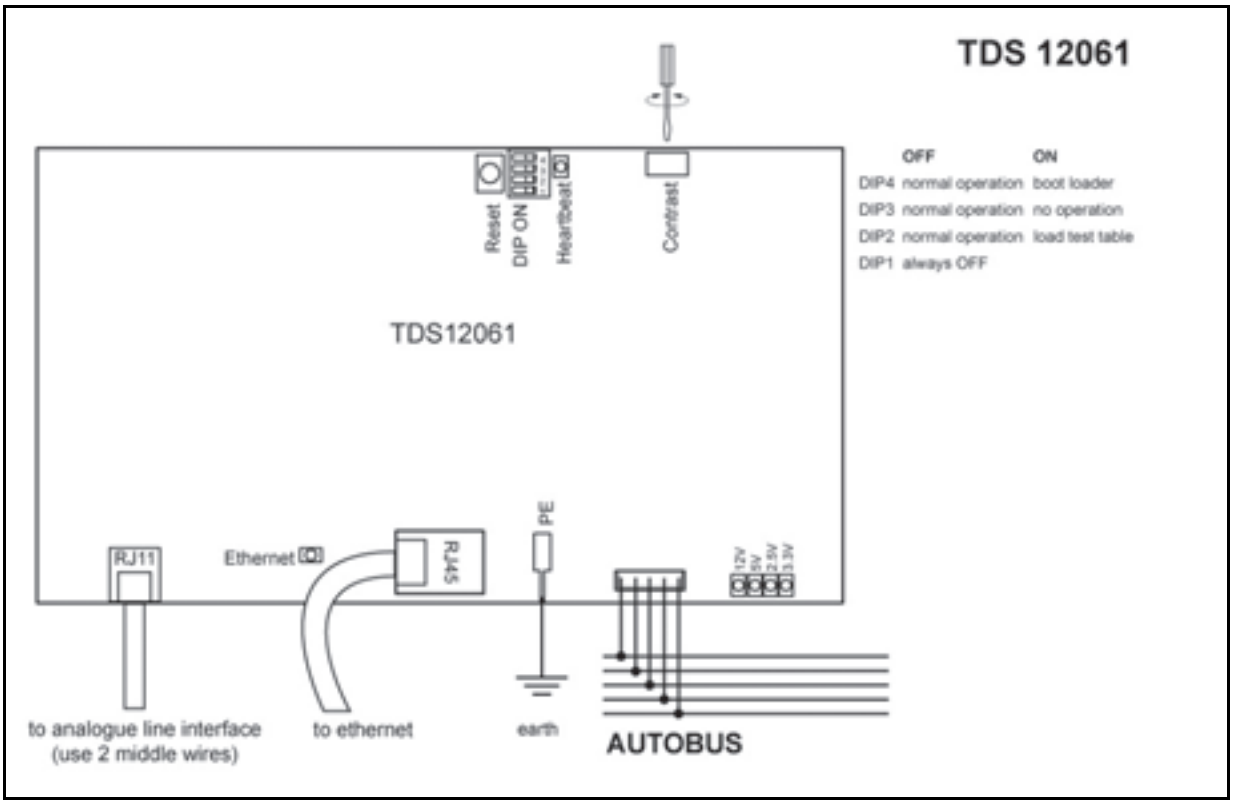


ILLUS TDS12061xx

ILLUS is a monochrome 5.7" AUTOBUS interface with touch screen. ILLUS enables you to control all domotic functions from a central location and In a simple way.

ILLUS screens are customised. The menu bars and the text (used on the buttons) are configured to your needs via PROSOFT software.

Application:		User interface to control all domotic functions with door phone functionalities.
Characteristics:	LCD	¼ VGA Monochrome 5,7" LCD; bottom view with touch screen
	Order numbers	TDS12061GL white glass front TDS12061PN pearl nickel front
Settings:	AUTOBUS address	Through software (Via the "configuration" menu of ILLUS)
	Programming	With PROSOFT Suite
Installation:	Wall Mounting	Special wall box TDS90061 is needed
	Height:	Built in on eye height (Details about the installations height, look on the sticker in the wall box TDS90061)
Connections:	AUTOBUS	By enclosed AUTOBUS connection set
	Analogue line	(Optional by additional ref TDS12062) By means of a RJ11 connector
	Ethernet	By means of a RJ45 connector
Power Consumption		Max. 350 mA
Dimensions:	Front	162 H x 240 W x 5 D (mm)
	Wall-box	135 H x 220 W x 60 D
Gross Weight:		2,240 kg
Schematic Drawing:		


TDS 12061
OFF ON
DIP4 normal operation boot loader
DIP3 normal operation no operation
DIP2 normal operation load test table
DIP1 always OFF
Reset
DIP ON
Heartbeat
Contrast
TDS12061
RJ11
Ethernet
RJ45
PE
12V
5V
2.5V
3.3V
to analogue line interface
(use 2 middle wires)
to ethernet
earth
AUTOBUS

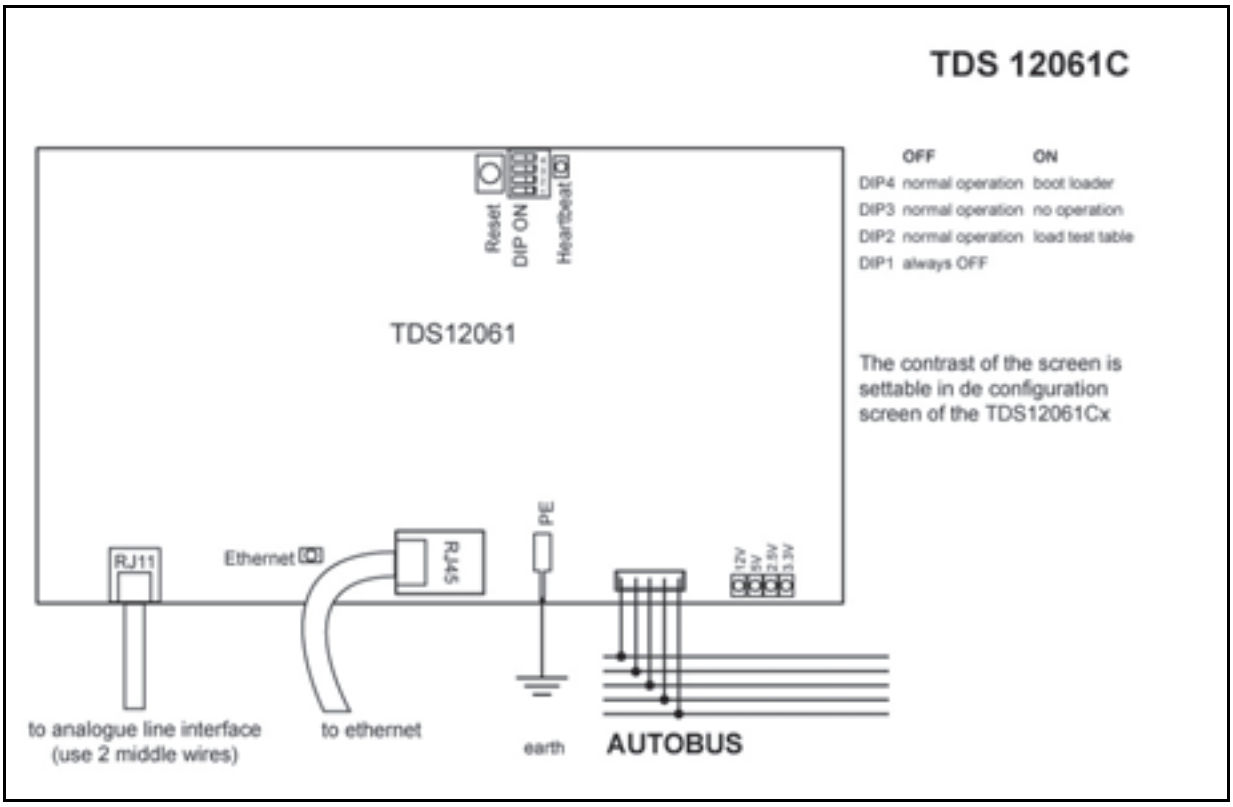
ILLUS Colour

TDS12061Cx

ILLUS colour is a colour 5.7” AUTOBUS interface with touch screen. ILLUS enables you to control all domotic functions from a central location and In a simple way.

ILLUS screens are customised. The menu bars and the text (used on the buttons) are configured to your needs via PROSOFT software.

Application:		User interface to control all domotic functions with door phone functionalities.
Characteristics:	LCD	¼ VGA colour 5,7” LCD; bottom view with touch screen
	Order numbers	TDS12061CG white glass front TDS12061CP pearl nickel front
Settings:	AUTOBUS address	Through software (Via the “configuration” menu of ILLUS)
	Programming	With PROSOFT Suite
Installation:	Wall Mounting	Special wall box TDS90061 is needed
	Height:	Built in on eye height (Details about the installations height, look on the sticker in the wall box TDS90061)
Connections:	AUTOBUS	By enclosed AUTOBUS connection set
	Analogue line	(Optional by additional ref TDS12062) By means of a RJ11 connector
	Ethernet	By means of a RJ45 connector
Power Consumption:		Max. 350 mA
Dimensions:	Front	162 H x 240 W x 5 D (mm)
	Wall-box	135 H x 220 W x 60 D
Gross Weight:		2,240 kg
Schematic Drawing:		


TDS 12061C
OFF ON
DIP4 normal operation boot loader
DIP3 normal operation no operation
DIP2 normal operation load test table
DIP1 always OFF
Reset
DIP ON
Heartbeat
TDS12061
The contrast of the screen is settable in de configuration screen of the TDS12061Cx
RJ11
Ethernet
RJ45
PE
12V
5V
2.5V
3.3V
to analogue line interface
(use 2 middle wires)
to ethernet
earth
AUTOBUS

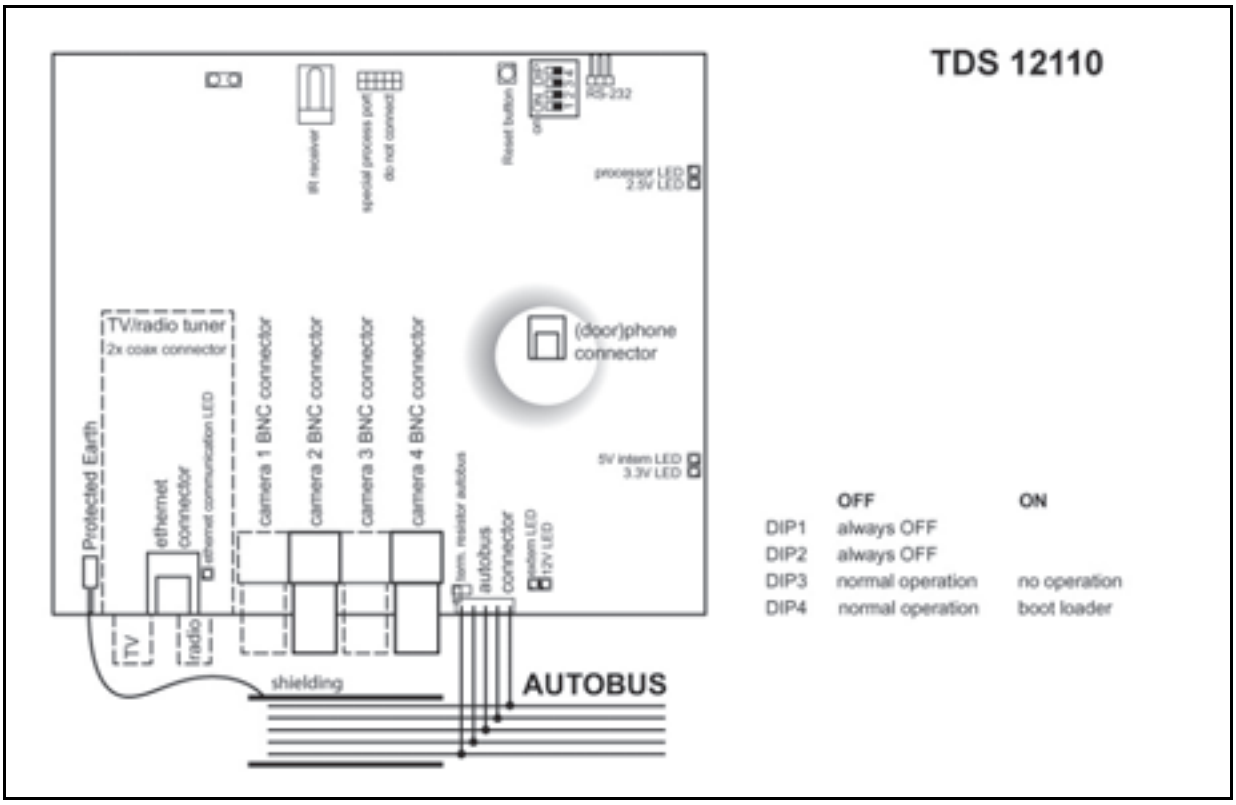
SERVUS TDS12110xx

SERVUS is a high end AUTOBUS interface with colour LCD touch screen. SERVUS enables you to control all domotic functions. In user friendly and well designed interactions screens you get access to the control buttons for lighting, heating, curtains, moods, audio... but also to the built in high-tech applications as TV- and radio tuner, microphone, speaker, speech generation. Besides this, SERVUS is also applicable as the internal video door phone interface with a video memory up to 30 camera captures included.

The menu-bars and the text on the buttons can be configured with the PROSOFT software suite. In this way SERVUS is completely adaptable to the customer and his home environment.

Application:		User interface for the control of all domotic functions and the integration of the video door phone system with built-in radio and TV.
Characteristics:	LCD	full VGA colour 6.5" TFT LCD; top view with touch screen.
	TDS12110GL	Glass front with white back coating TV tuner compatible to European PAL Supports all European character sets including Greek, Latvian…
	TDS12110ST	Brushed stainless steel front TV tuner compatible to European PAL Supports all European character sets including Greek, Latvian…
	TDS12110HG	Glass front with white back coating TV tuner compatible to Asian PAL Supports Chinese language character set
	TDS12110HS	Brushed stainless steel front TV tuner compatible to Asian PAL Supports Chinese language character set
	TDS12110AG	Glass front with white back coating TV tuner compatible to NTSC Supports all European character sets including Greek, Latvian…
	TDS12110AS	Brushed stainless steel front TV tuner compatible to NTSC Supports all European character sets including Greek, Latvian…
Settings:	AUTOBUS address	Through software (Via the “configuration” menu of SERVUS)
	Programming	With PROSOFT Suite

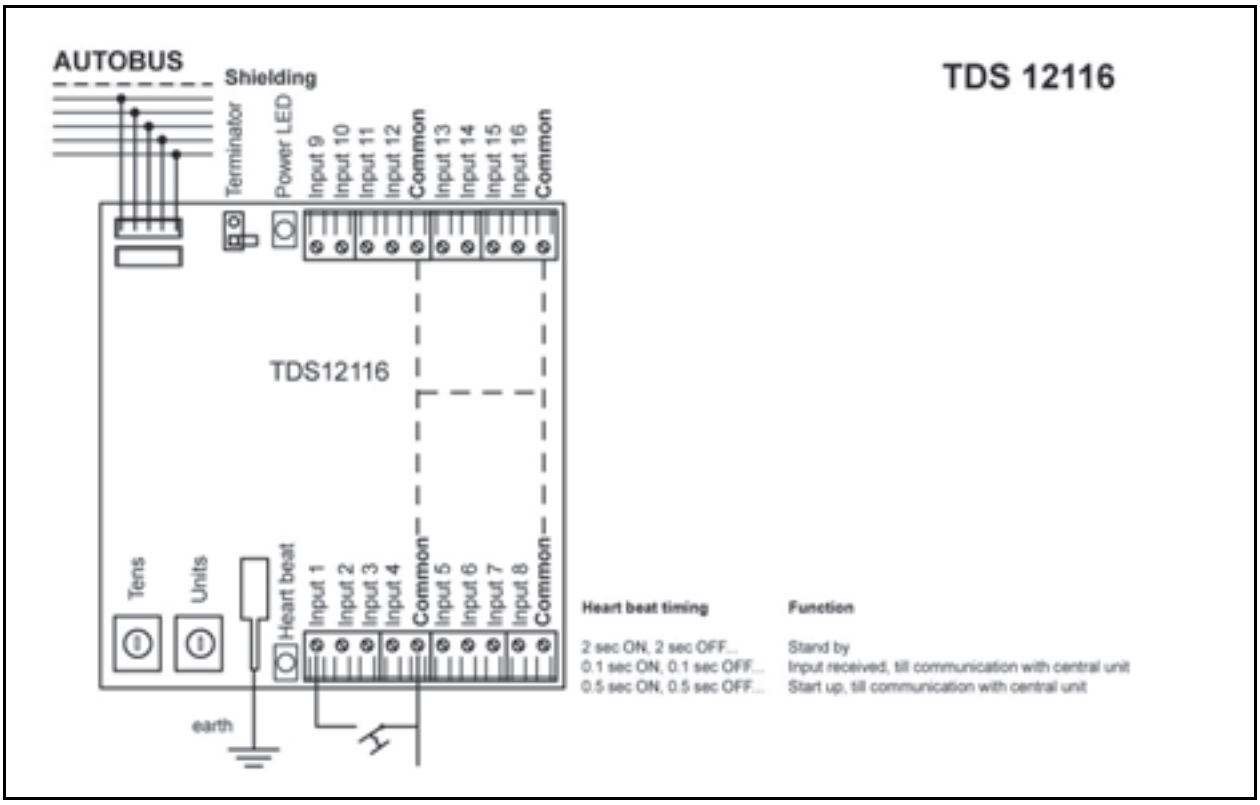
Installation:	Wall Mounting	Special wall box TDS90050 is needed
	Height:	Built in the bottom of the wall box on 135 cm till 145 cm from the ground level.
Connections:	AUTOBUS	By enclosed AUTOBUS connection set; maximum 25m AUTOBUS length between the power supply and the SERVUS. !!! Always connect the shielding of the AUTOBUS cable to the fast-on lip located on the SERVUS.
	Analogue line	By means of a RJ11 connector.
	Ethernet	By means of a RJ11 connector.
	External camera	By enclosed BNC connector; 4 pieces. Important remark: The selection of your camera is important to guarantee a perfect image on the SERVUS unit(s). The sensitivity for dark environmental conditions may be important to think about. If the camera is directed to string opposite light sources like the sun or other light (drive way light spots…), the camera should be provided with an auto iris function. Otherwise your image may be influenced and not usable any more. Anyhow, opposite light sources should be avoided as much as possible. Therefore we recommend to refer to your camera supplier to be sure you select the right camera.
	TV & Radio	by enclosed COAX connectors.
Power Consumption:		Max. 1450 mA
Dimensions:	Front	268 W x 268 H x 10 D (mm)
	Built-In	225 W x 220 H x 60 D (mm)
Gross Weight:		3,440 kg
Schematic Drawing:		


TDS 12110
IR receiver
special process port
do not connect
Reset button
ON DIP
RS-232
processor LED
2.5V LED
TV/radio tuner
2x coax connector
camera 1 BNC connector
camera 2 BNC connector
camera 3 BNC connector
camera 4 BNC connector
(door)phone
connector
5V intern LED
3.3V LED
Protected Earth
ethernet
connector
ethernet communication LED
term. resistor autobus
autobus
connector
system LED
1.2V LED
TV
radio
shielding
AUTOBUS
OFF
ON
DIP1 always OFF
DIP2 always OFF
DIP3 normal operation no operation
DIP4 normal operation boot loader

Digital input interface with 16 input TDS12116

Interface to be connected on the AUTOBUS. On the interface up to 16 voltage free input contacts can be connected.
Examples: push buttons, window contacts, motion- and presence sensors (with voltage free contact), output contacts of a security system, etc...
The interface is suitable for DIN-rail mounting.

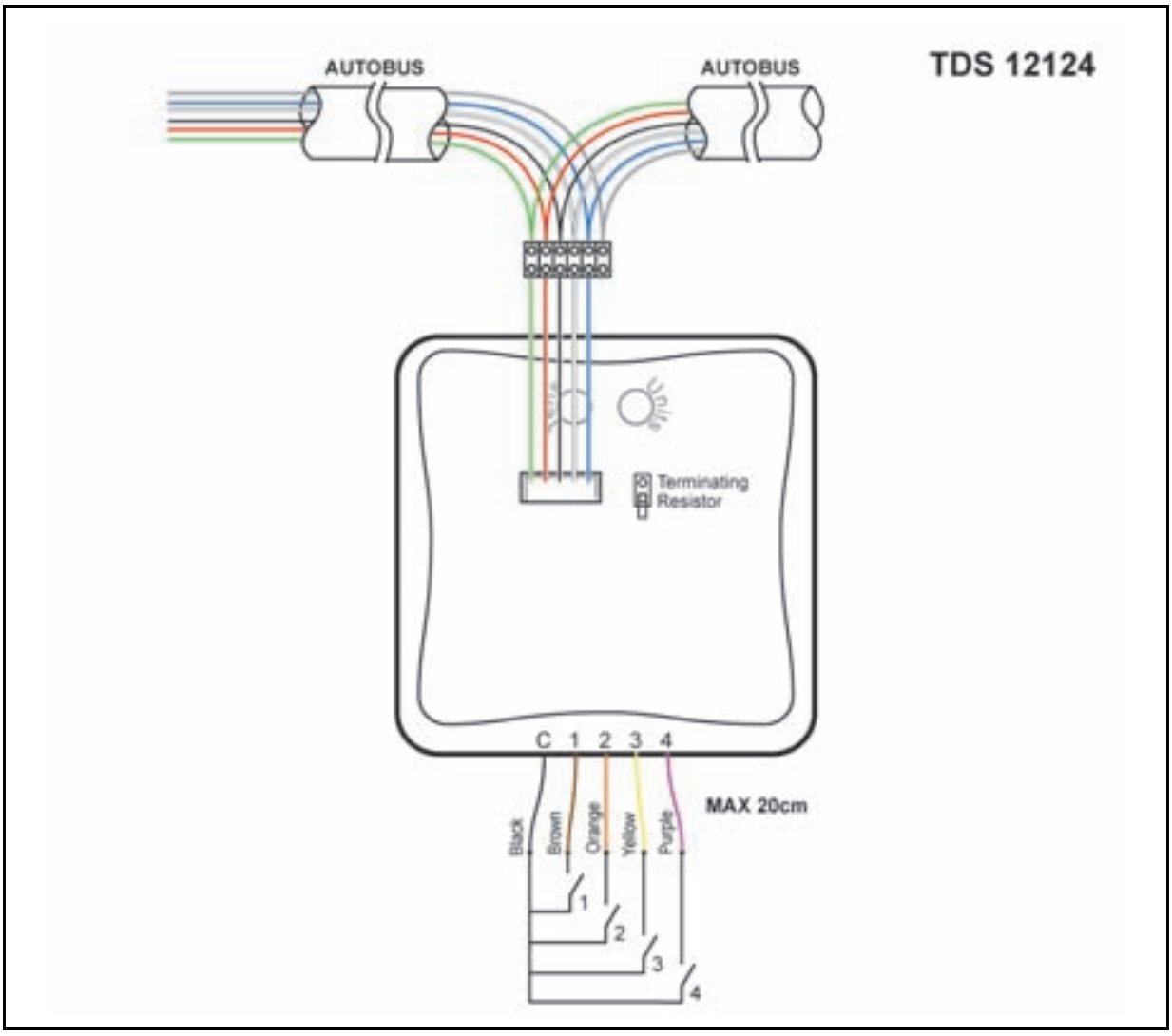
Application:		Interface for the connection of 16 digital inputs on the AUTOBUS.
Characteristics:	Inputs	For 16 voltage free input contacts. Invertible inputs available from PROSOFT V2.70
	Heart beat LED	This LED reflects the working of the processor, the change of an input status and the communication with AUTOBUS and the central unit.
Settings:	Functions	With PROSOFT Suite
	AUTOBUS address	Trough rotary switches Tens + Units This interface uses **2 addresses** (the hardware set address and the following address)
Installation:		DIN-rail mounting
Connections:	AUTOBUS	AUTOBUS connector set + patch cable supplied with this unit
	Earth	Through fast-on; very important
Power Consumption:		Max. 28 mA
Dimensions:	Dimensions	72 W x 90 H x 60 D (mm) About 4 modules
Gross Weight:		0,220 kg
Schematic Drawing:		


AUTOBUS
Shielding
TDS 12116
Terminator
Power LED
Input 9
Input 10
Input 11
Input 12
Common
Input 13
Input 14
Input 15
Input 16
Common
TDS12116
Tens
Units
Heart beat
Input 1
Input 2
Input 3
Input 4
Common
Input 5
Input 6
Input 7
Input 8
Common
earth
Heart beat timing
Function
2 sec ON, 2 sec OFF...
Stand by
0.1 sec ON, 0.1 sec OFF...
Input received, till communication with central unit
0.5 sec ON, 0.5 sec OFF...
Start up, till communication with central unit

COOKIE Digital Input Interface TDS12124

Miniature input interface with four voltage free contact inputs. These can be used to connect push buttons, window contact etc. (any brand). The interface is small enough to be built in any type of wall box and is to be connected on the TELETASK AUTOBUS.

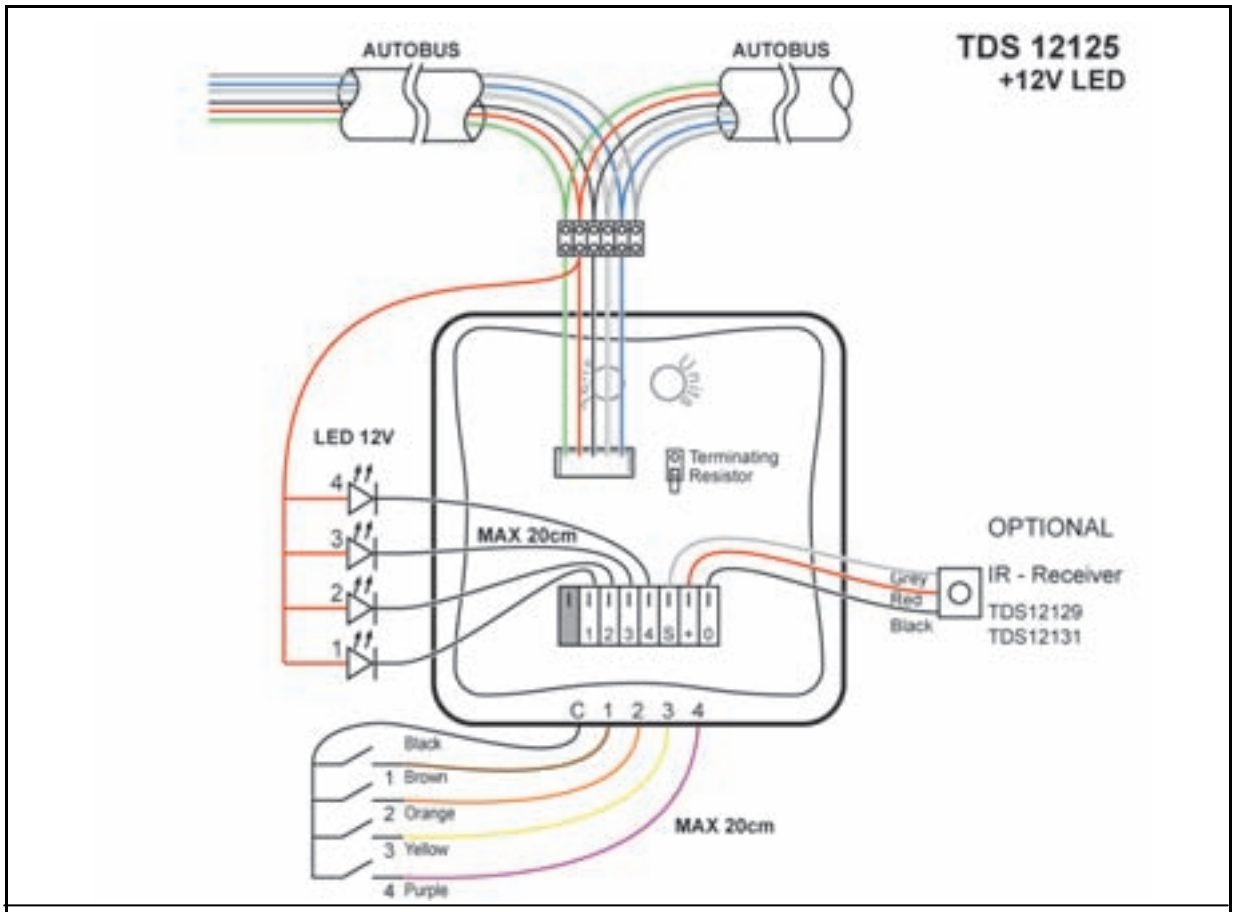
Application:		Built in input interface to connect up to four voltage free contacts
Characteristics:	Inputs	4 x voltage free contacts (low frequency; max. 1Hz)
Settings:	Functions	With PROSOFT Suite
	AUTOBUS address	Trough rotary switches “Tens” + “Units”
	Jumper	Terminating resistor (standard OPEN)
Installation:		Built-in in walls behind standard push buttons
Connections:	AUTOBUS	By enclosed AUTOBUS connector set
	Inputs	Through colored wires (length=15cm, length max=20cm, colour codes: Black (Common), Brown (input 1), Orange (input 2), Yellow (input 3), Purple (input 4)
Power Consumption:		Max. 0,025 A
Dimensions:		42 W x 42 H x 16 D (mm) + cabling
Net | Gross weight:		0.018 kg | 0.040 kg
Schematic Drawing:		

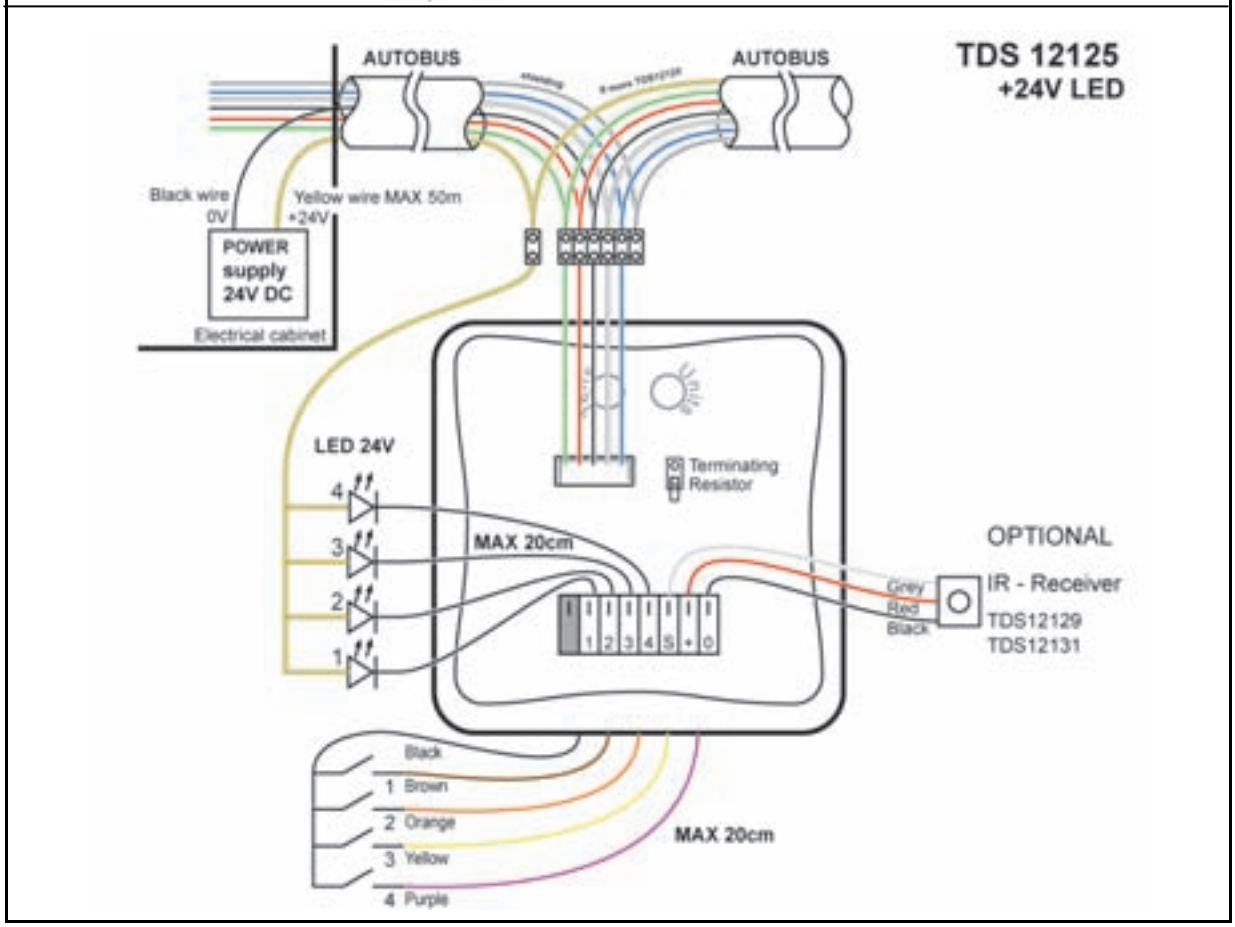

TDS 12124
AUTOBUS
AUTOBUS
Terminating Resistor
C 1 2 3 4
MAX 20cm
Black
Brown
Orange
Yellow
Purple
1
2
3
4

COOKIE Digital input interface with LED-feedback TDS12125

Miniature input interface with four voltage free contact inputs. These can be used to connect push buttons, window contacts etc. (any brand). The interface is small enough to be built in any type of wall box and is to be connected on the AUTOBUS. This COOKIE has the option to connect feedback LED's and an IR receiver.

Application:		Built in input interface with feedback to connect up to four voltage free contacts and up to 4 feedback LED's.
Characteristics:	Inputs	Four voltage free contacts (low frequency; max 1Hz)
	IR	Possibility to connect an IR receiver (optional TDS12129 or TDS12131)
	LED-outputs	Possibility to connect four low current LED's
Settings:	Functions	With PROSOFT Suite
	AUTOBUS address	Trough rotary switches "Tens" + "Units"
	Jumpers	Terminating resistor (default OPEN)
Installation:		Built-in in walls behind standard push buttons
Connections:	AUTOBUS	By enclosed AUTOBUS connector set
	Inputs	Through colored wires (length=15cm, length max=20cm, colour codes: Black (Common), Brown (input 1), Orange (input 2), Yellow (input 3), Purple (input 4)
	LED-outputs	Wire, min. 0,2 en max. 0,5 mm², length max=20cm. 12V LED's can be powered by AUTOBUS (red wire). 24V should be powered by extra power supply, use yellow wire from AUTOBUS, length max=50m. See schematic drawing in this datasheet.
	IR-link	By green wire on the AUTOBUS. (wire, min. 0,2 en max. 0,5 mm²)
Power Consumption:		Max. 0.05 A
Dimensions:		42 W x 42 H x 22 D (mm) + cabling
Net | Gross weight:		0.022 kg | 0.042 kg
Schematic Drawing:		

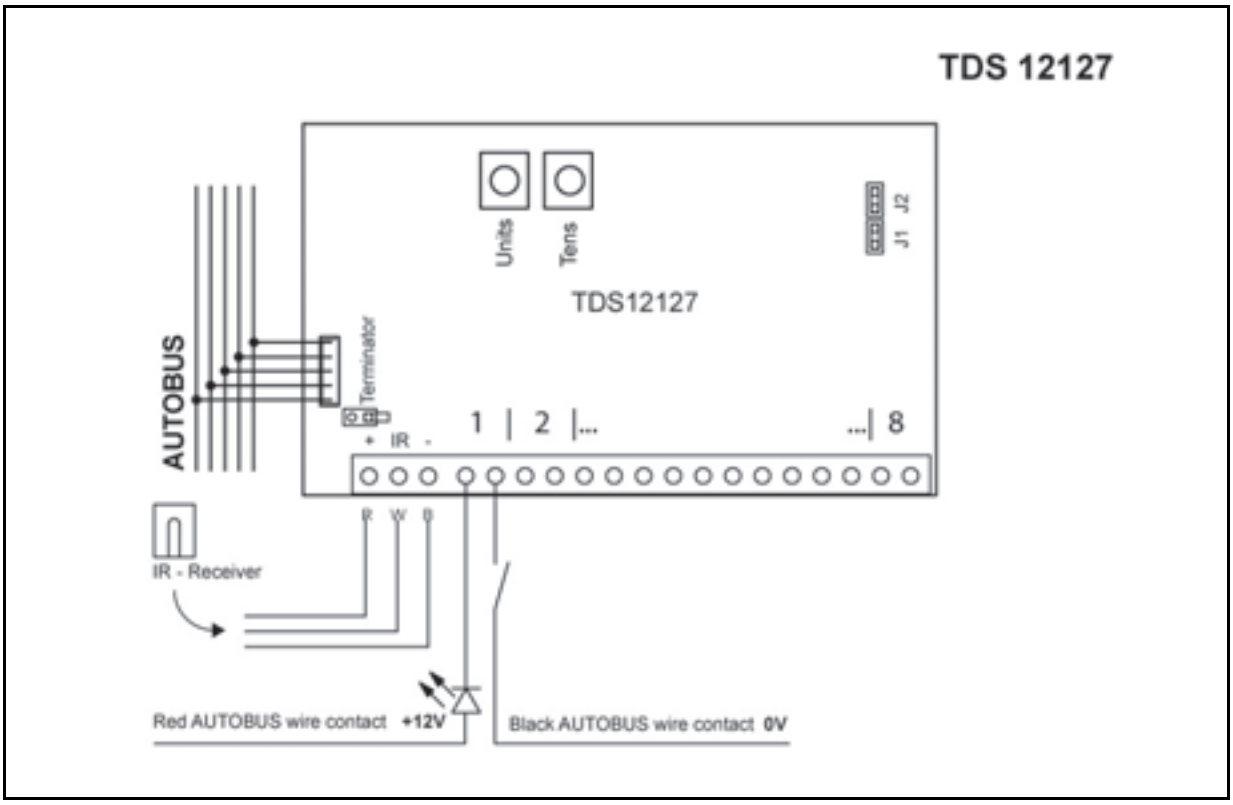

TDS 12125
+12V LED
AUTOBUS
AUTOBUS
LED 12V
4
3
2
1
Terminating Resistor
MAX 20cm
OPTIONAL
IR - Receiver
TDS12129
TDS12131
Grey
Red
Black
1 2 3 4 5 + 0
C 1 2 3 4
Black
1 Brown
2 Orange
3 Yellow
4 Purple
MAX 20cm


TDS 12125
+24V LED
AUTOBUS
AUTOBUS
Black wire
0V
Yellow wire MAX 50m
+24V
POWER
supply
24V DC
Electrical cabinet
LED 24V
4
3
2
1
Terminating Resistor
MAX 20cm
OPTIONAL
IR - Receiver
TDS12129
TDS12131
Grey
Red
Black
1 2 3 4 5 + 0
Black
1 Brown
2 Orange
3 Yellow
4 Purple
MAX 20cm

Digital input interface with feed back TDS12127

Interface with feedback to be connected on the AUTOBUS. This interface has 8 voltage free contact inputs. These are to be used to connect for example push buttons (any brand), window contacts, etc.
The interface is a built in type for in-wall mounting.

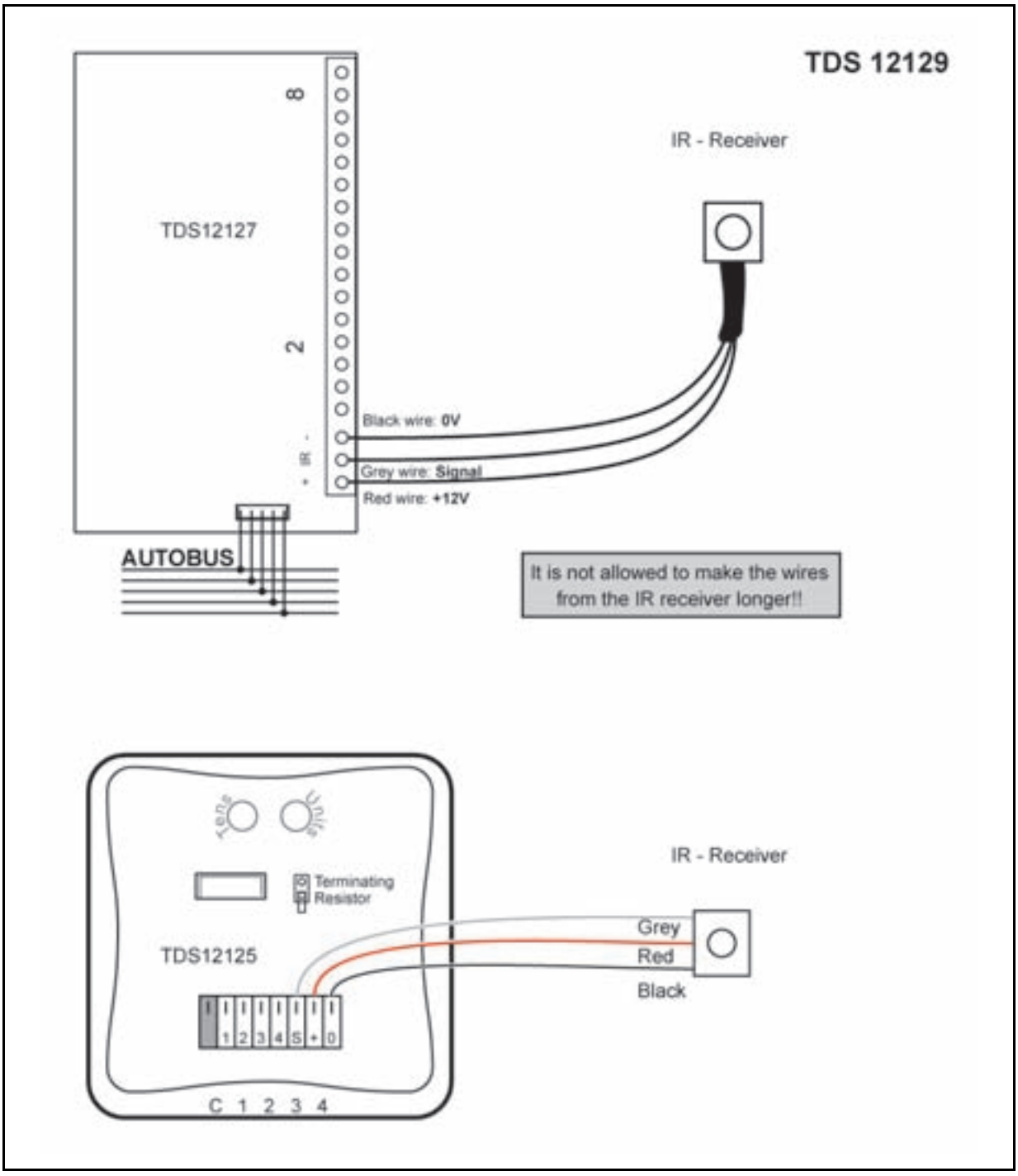
Application:		Built in interface with feedback for up to 8 voltage free digital input contacts and up to 8 feedback led 's.
Characteristics:	Inputs	8 Voltage free contacts (low frequency max 1Hz)
	IR	Possibility to connect an IR receiver. (optional TDS12129)
	LED-outputs	Possibility to connect 8 low current LED's.
Settings:	Functions	With PROSOFT Suite
	AUTOBUS address	Trough rotary switches Tens + Units
	Jumpers	JP1+JP2: baud rate (standard 9600) JP3: terminating resistor (stand. Off)
Installation:		Built-in
Connections:	AUTOBUS	By enclosed AUTOBUS connector
	IR-link	By enclosed AUTOBUS connector (green wire)
Power Consumption:		Max. 103 mA
Dimensions:		90 W x 45 H x 15 D (mm)
Gross Weight:		0,150 kg
Schematic Drawing:		


TDS 12127
Units
Tens
J1 J2
TDS12127
AUTOBUS
Terminator
+ IR -
1 | 2 |...
...| 8
R W B
IR - Receiver
Red AUTOBUS wire contact +12V
Black AUTOBUS wire contact 0V

Infrared receiver TDS12129

Optional IR-receiver to be used with the built in versions of the digital interface TDS12125 and TDS12127.

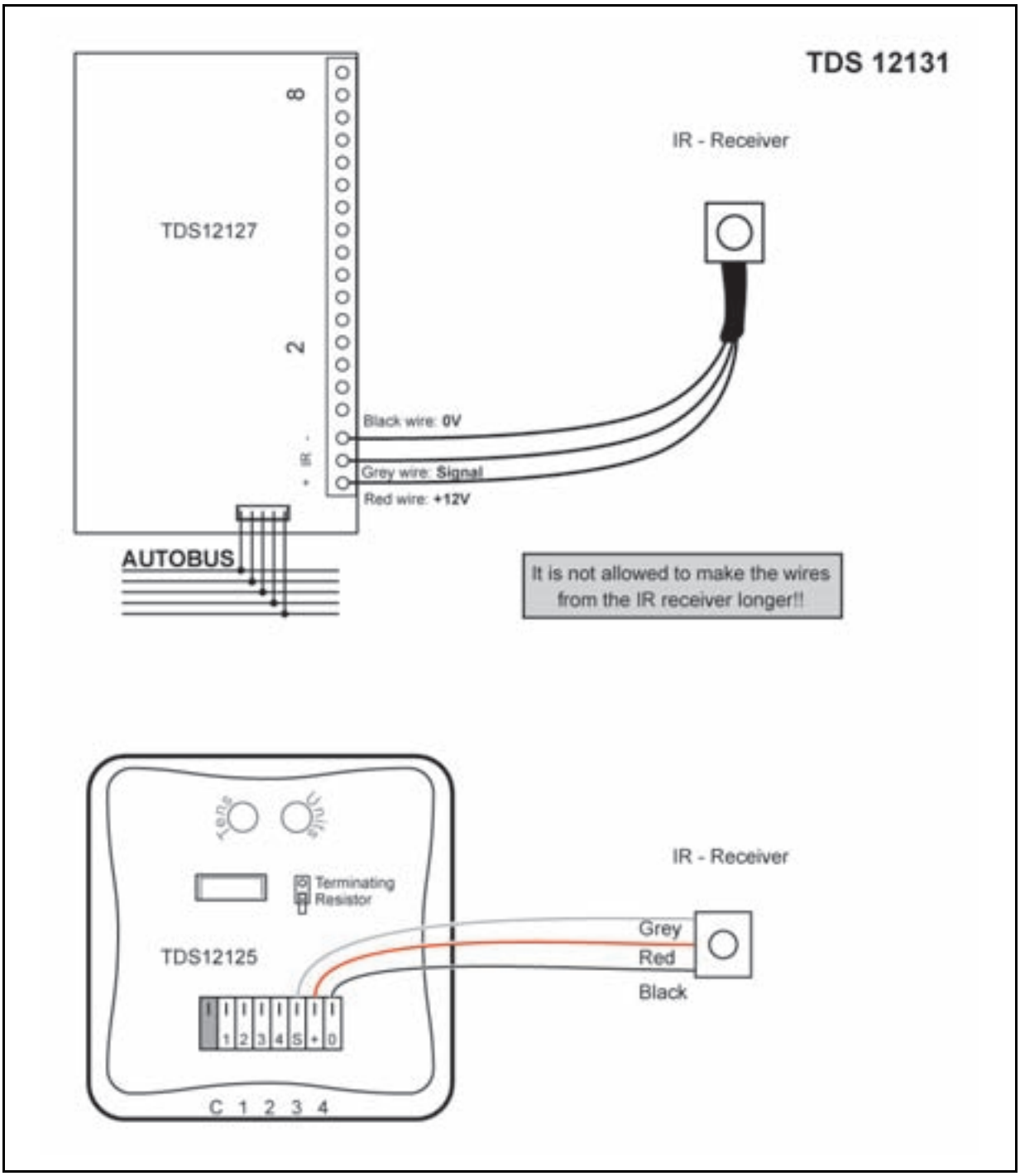
Application:		To provide the digital interfaces TDS12125 and TDS12127 with IR Remote control functions.
Characteristics:	IR receiver	36 kHz
Settings:		None
Installation:		To be placed behind an IR transparent window. Cable connection max. 20 cm.
Connections:		On the digital input interface through screw connections. (+5V, IR in en OV)
Power Consumption:		Not applicable
Dimensions:	Dimensions	10 W x 15 H x 8 D (mm)
Gross Weight:		0,010 kg
Schematic Drawing:		


TDS 12129
IR - Receiver
TDS12127
8
2
IR
Black wire: 0V
Grey wire: Signal
Red wire: +12V
AUTOBUS
It is not allowed to make the wires from the IR receiver longer!!
Terminating Resistor
IR - Receiver
TDS12125
Grey
Red
Black
1 2 3 4 5 + 0
C 1 2 3 4

Infrared receiver for B&O integration (455kHz) TDS12131

Optional IR-receiver to be used with the built in versions of the digital interface TDS12125 or TDS12127 for use with B&O audio systems control.

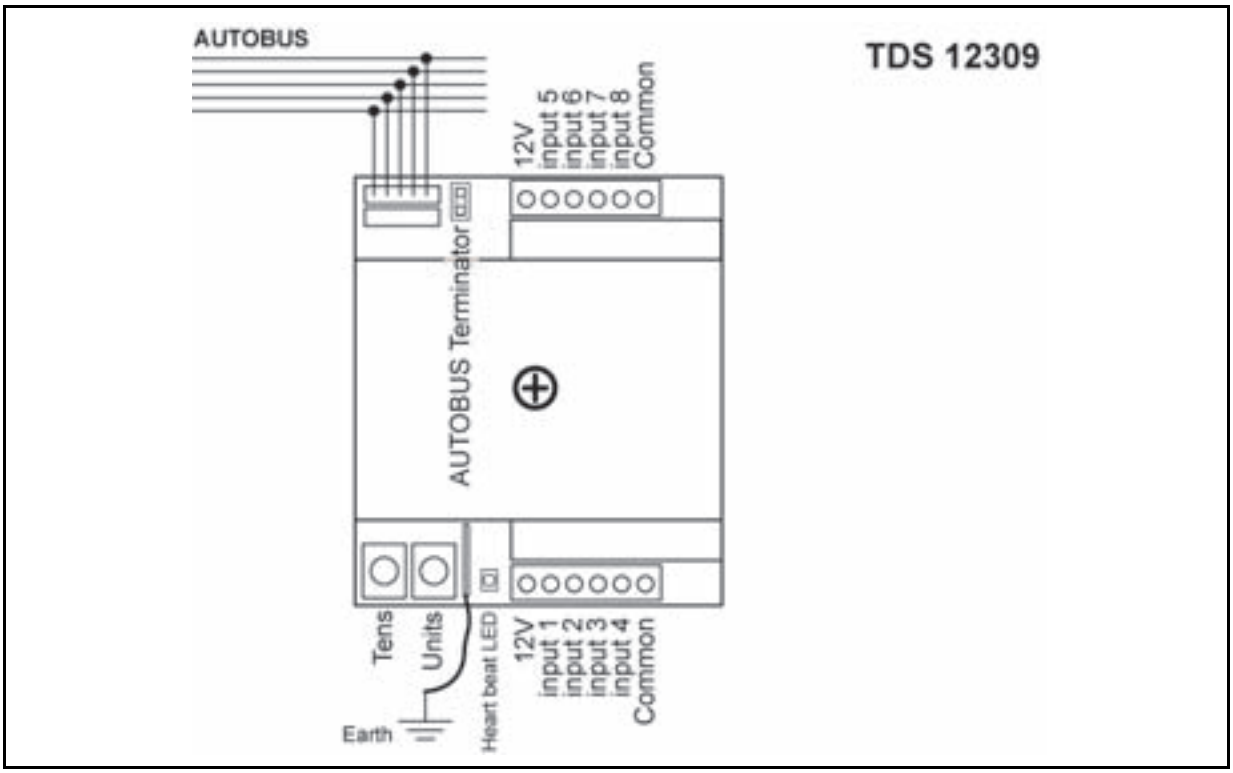
Application:		To provide the digital interfaces TDS12125 and TDS12127 with B&O compliant IR Receiver + standard TELETASK Remote control functionalities in combination with TDS12502 Remote control.
Characteristics:	IR receiver	455 kHz
Settings:		To be set on the TDS12502 remote control (455KHz modulated output setting)
Installation:		To be placed behind an IR transparent window. Cable connection max. 20 cm.
Connections:		On the digital input interface through screw connections. (+5V, IR in en OV)
Power Consumption:		
Dimensions:	Dimensions	10 W x 15 H x 8 D (mm)
Gross Weight:		0,010 kg
Schematic Drawing:		


TDS 12131
IR - Receiver
TDS12127
8
2
IR
Black wire: 0V
Grey wire: Signal
Red wire: +12V
AUTOBUS
It is not allowed to make the wires from the IR receiver longer!!
Terminating Resistor
TDS12125
IR - Receiver
Grey
Red
Black
1 2 3 4 5 + 0
C 1 2 3 4

Analogue input interface with 8 TELETASK inputs (0 – 10V) TDS12309

Analog input interface to be connected to AUTOBUS, with eight analog sensor inputs for temperature, humidity and light sensing.

Application:		Interface between AUTOBUS and TELETASK sensors.
Characteristics:		Up to 8 TELETASK sensors can be connected.
Settings:	Functions	With PROSOFT Suite
	AUTOBUS address	Trough rotary switches Tens + Units
	Jumper	Terminating Resistor (stand. Off)
Installation:		DIN-rail mounting
Connections:	AUTOBUS	AUTOBUS connector set + patch cable supplied with this unit
	Shielding	Connect the shielding of the sensor cable to the AUTOBUS shielding.
	Inputs	by screw terminals, max 1mm²; always connect each sensor with a separately shielded cable (three wires). Connect the shielding with the AUTOBUS shielding at the interface. Maximum cable length between sensors and interface is 50 meters.
Power Consumption:		52 mA
Dimensions:		72 B x 90 H x 60 D (mm) Circa 4 modules
Gross weight:		0,180 kg
Schematic Drawing:		


AUTOBUS
TDS 12309
12V
input 5
input 6
input 7
input 8
Common
AUTOBUS Terminator
Tens
Units
Heart beat LED
Earth
12V
input 1
input 2
input 3
input 4
Common

Universal analog input interface TDS12310

AUTOBUS Interface with 8 inputs for universal analog sensors. Using this interface you are able to integrate any industrial sensor like temperature measuring for the sauna, water level measuring of the swimming pool, wind metering… with the TELETASK domotic system.

Signals 0-5V, 0-10V, 0-20mA, 4-20mA and TELETASK analog sensors are applicable.

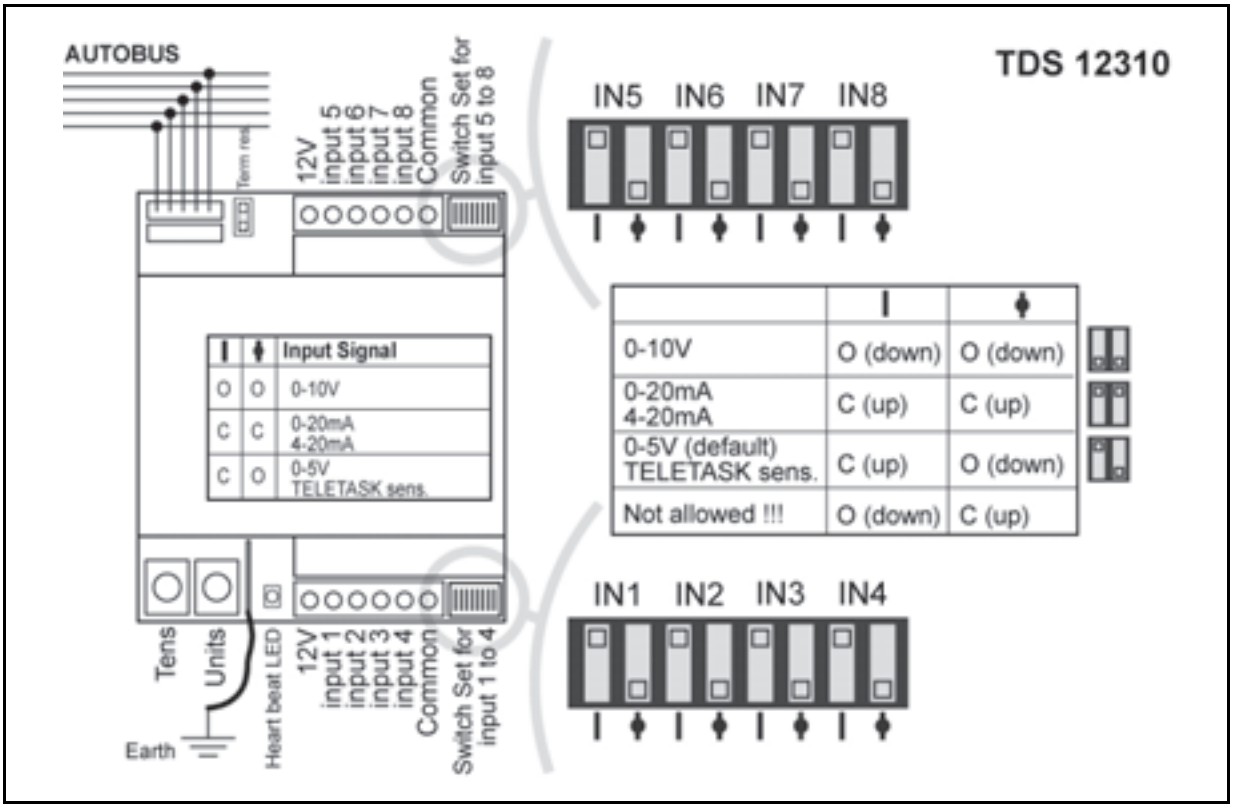
Application:	Used for domestic and office purposes. Measuring analog parameters. This interface is not suited for measurement or control of such processes, which could lead to danger when controlling fails. Neither is this interface suited for controlling industrial processes.
Application example:	(1) A wind sensor measuring from 0V tot 10V. Output, 0,7m/sec (2,52km/h) for 0V up to 40m/sec (144km/h) for 10V . (2) A rain water tank (content 10.000L) with an ultrasonic sensor (4-20mA output), ex. Type Sontay LS-UL3) The total range of 10.000L divided with a resolution of 720 steps, gives 10.000/720 = 13,9L (see table below). On the display of the LATUS-LCD there is a limit of characters (6) which lead to the following result as a maximum: 99999L. Remark**:** This is only true when the signal has a linear resolution with the tank content. This is correct in case of a rectangle tank. When used with a circular tank, the signal won't be linear. In this case it is advised to represent the value in percent or meter. **IMPORTANT:** Failure of the measurement (ex. Wind sensor is broken or cables are cut) could cause dangerous situations. For example, in case of a wind speed sensor, if broken, your sunshades won't be withdrawn automatically by high wind speeds. To prevent damage you will have to withdraw the shades manually. TELETASK is in no way responsible for damage caused by bad working or broken components of the system.
Display possibilities:	On the LATUS-LCD (TDS12015xx) there is a maximum of digits available for text to be displayed: 6 digits including the optional "-", "." Or unit symbol. Ex. "999999", "-16.4C", "-16.66", "105kmh"
Characteristics:	Up to 8 universal analog sensors can be connected: TELETASK analog sensors (TDS12250xx/ 12260xx/ 12270xx) and sensors with 0-5V, 0-10V, 0-20mA, 4-20mA output signals.

Settings:	Functions	Via PROSOFT (starting from 3.0.0.70)
	AUTOBUS address	Via rotary switches 'Tens' + 'Units':
	Jumper	Terminating Resistor (default OPEN)
	Input	For every input you have to set two dip switches to define the type of sensor which is connected with that particular analog TDS input. Consult the schematic drawing for the correct dip switch settings. !!! Be very careful and secure with the dip switch setting because a wrong sensor type setting causes improper functioning or even can it damage the input.
Installation:		DIN-rail mounting
Connections:	AUTOBUS	AUTOBUS connector set + patch cable supplied with this unit
	Inputs	Screw terminals for wires max 1mm²; always connect each sensor with an individual shielded cable (three wires) only. Connect shielding with the AUTOBUS shielding at the interface. Maximum cable length between sensors and interface is 50 meters, except for 0-20A and 4-20mA where it is 100 meter.
Power Consumption:		Max. 52 mA
Dimensions:		72 B x 90 H x 60 D (mm) Circa 4 module units wide
Gross Weight:		0,180 kg
Possible error messages on displays (ex. LATUS-LCD Touch panel):	"data?"	No information from interface (check AUTOBUS connection)
	"sens?"	Sensor not connected (TDS temperature & TDS humidity only)
	"wait."	Interface is calculating first measurement
	"loop?"	Broken cable (4-20mA only)
	"pow?"	Sort circuit in the power of the sensors
	"error"	Wrong signal (ex. Wrong sensor)

TABLE OF MEASUREMENT RESOLUTION AND PRECISION

Signal:	Resolution:	Precision(@25°C):	Non Linearity:
0 – 5V	1024	± 3%	< ±1%
0 – 10V	1024	± 3%	< ±1%
0 – 20mA	900	± 3%	< ±1%
4 – 20mA	720	± 3%	< ±1%
TDS Temp sensor	1200 (0,1°C)	± 1%	< ±1%
TDS Light sensor	200	± 10%	< ±1%
TDS Humidity sensor	100 (1%RH)	± 5%	< ±2%

Schematic Drawing:



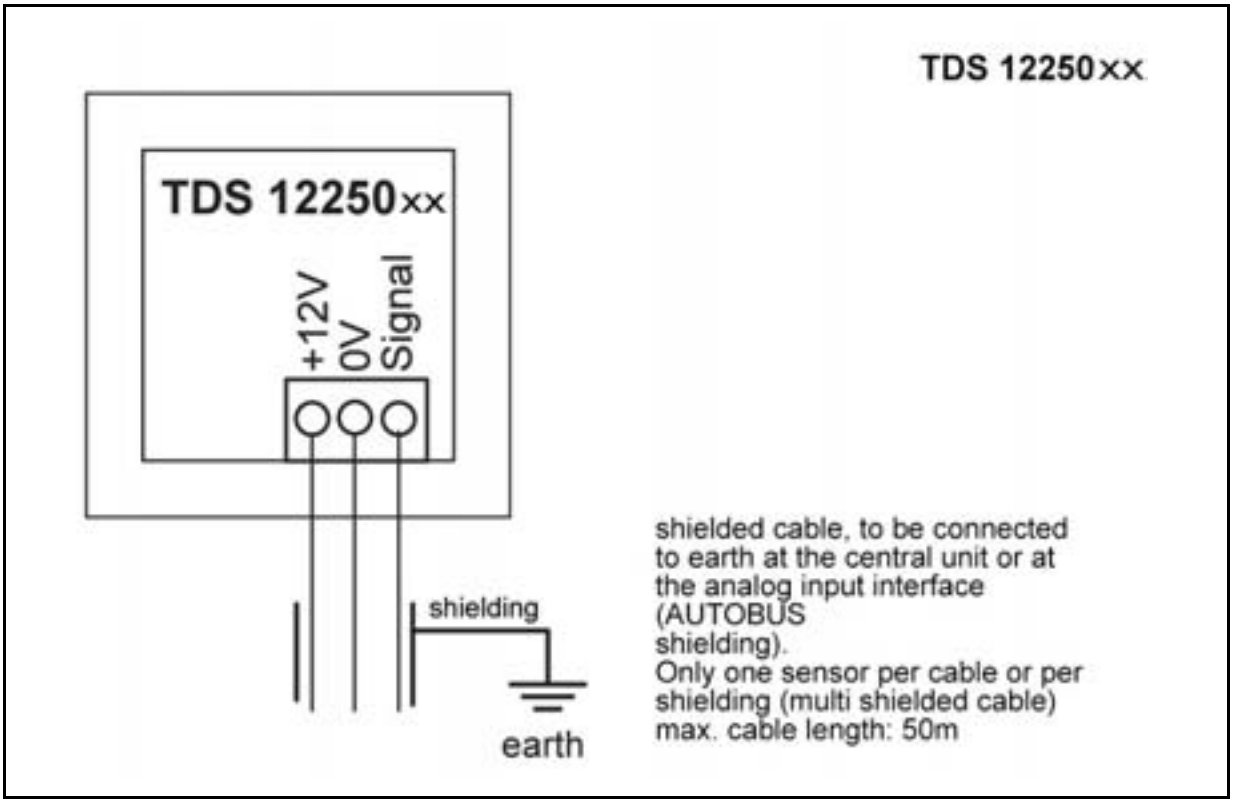
Temperature sensor TDS12250xx

This temperature sensor is to be used to control heating and cooling. It can also be used only to indicate the environment temperature on a display.

Application:		Measuring room temperatures. One sensor is to be used per temperature zone. One sensor can be used for both cooling and heating in the same temperature zone. To be connected to a TELETASK “analog” input.
Characteristics:		Temperature measure range: -40°C > +80°C Sensor to be connected with 3 wires
	Order numbers	TDS12250WH – white front TDS12250PN - pearl-nickel silver gray front
Settings:		None
Installation:		Horizontal mounting on a flat surface, about 1.5 meter height. Sensor can be placed in front of the wall or inside the wall using 45x45mm or 50x50mm frames. Ideal build-in heigt: 2,5m – 10 to 15 cm away from any door. **Remark:** Make sure that eventual draught in the wall box does not influence the temperature measurement. To avoid draught in the wall box, close the flexible tube of the wire with silicone and isolate the wall box. **Remark:** When the sensor is built in the wall the measurement can be influenced by the temperature of the concrete wall. Do not mount to close to a door opening, (minimum 15cm), to a window, on an outdoor wall or to a heating/cooling source. Min. wire section: 0.25mm²
Connections:		By shielded cable, containing three wires (+12V/0V/signal). When more than one sensor is connected with the same cable, the signals should be shielded separately. Maximum cable length is 50m. Connect the sensor cable shielding to the AUTOBUS shielding. By means of three screw terminals.
Power Consumption:		Max. 4 mA

Dimensions:	50 W x 50 H x 21 D (mm)
Gross weight:	0,040 kg

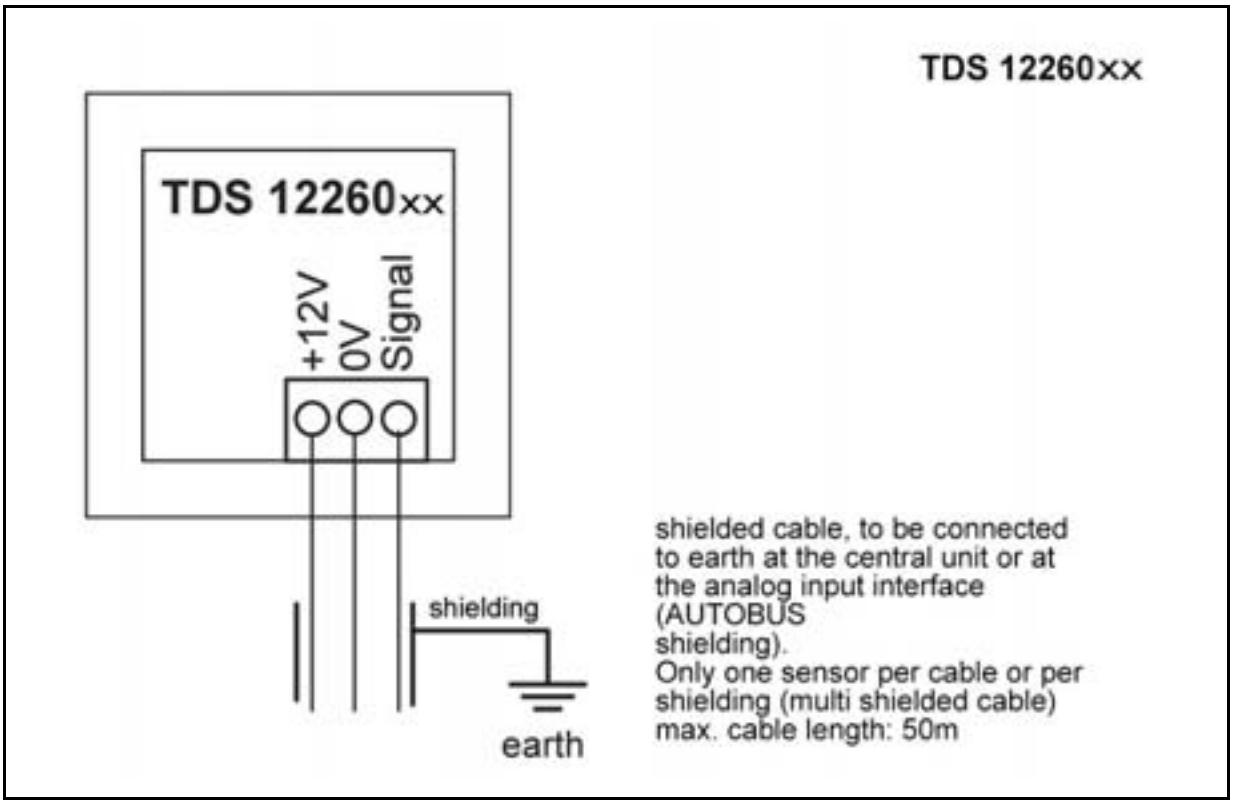
Schematic Drawing:



Humidity sensor TDS12260xx

This humidity sensor is to be used to indicate and/or to control humidity levels.

Application:		Measuring humidity levels between 20%RH and 95%RH RH: relative humidity To be connected to a TELETASK “analog” input.
Characteristics:	Order numbers:	Sensor to be connected by 3 wires. TDS12260WH – white front TDS12260PN - pearl-nickel silver gray front
Settings:		None
Installation:		Horizontal mounting on a flat surface, about 1.5 meter height. Sensor can be placed in front of the wall or inside the wall using 45x45mm or 50x50mm frames. Ideal build-in heigt: 2,5m – 10 to 15 cm away from any door. **Remark:** When the sensor is built in the wall the measurement can be influenced by the humidity level of the concrete wall. Do not mount to close to a door opening, (minimum 15cm), to a window or to a heating/cooling source. Min. wire section: 0.25mm²
Connections:		By shielded cable, containing three wires (+12V/0V/signal). When more than one sensor is connected with the same cable, the signals should be shielded separately. Maximum cable length is 50m. Connect the sensor cable shielding to the AUTOBUS shielding. By means of three screw terminals.
Power Consumption:		Max. 4 mA
Dimensions:		50 W x 50 H x 21 D (mm)
Gross Weight:		0,040 kg
Schematic Drawing:		


TDS 12260xx
TDS 12260xx
+12V
0V
Signal
shielding
earth
shielded cable, to be connected to earth at the central unit or at the analog input interface (AUTOBUS shielding).
Only one sensor per cable or per shielding (multi shielded cable)
max. cable length: 50m

Light sensor

TDS12270xx

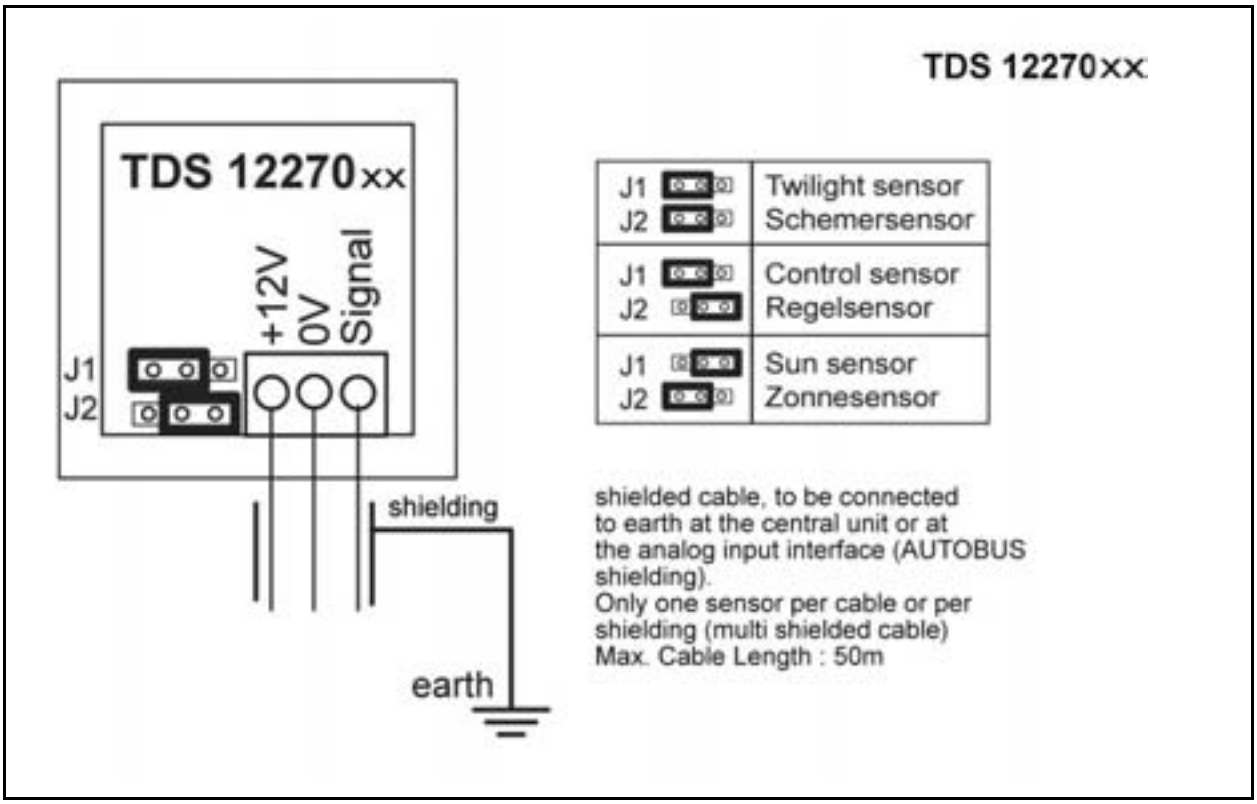
This light sensor is to be used to sense for light levels. Depending of the placement the sensor can be used to control indoor or outdoor functions (lights).

The sensor can be used to control curtains, shutters, lights, etc... Or to sense if a 'dark' or 'light' or ... Situation is true.

Application:		For indoor and outdoor applications To be used to sense the environmental light level. To be connected to a TELETASK "analog" input.
Characteristics:		Sensor with three wire connection Mounted in a IP44 housing (for indoor and outdoor use) Temperature range: -20°C to +50°C
	Range	Twilight 0,1 > 1584 lux General purpose 1 > 15848 lux Sun 10 > 99999 lux
	Order numbers	TDS12270WH – white front TDS12270PN - pearl-nickel silver gray front
Settings:	Jumpers	JP1 + JP2: to define the sensor as a sun-, regulate- or dusk sensor
Installation:		To be mounted on a flat surface, protected for outdoor influences as rain and snow or built in the wall using 45x45mm or 50x50mm frames. Ideal build-in heigt: 2,5m – 10 to 15 cm away from any door. Anyway, depending the application you should consider the placement to be protected against direct sun light or not (ex: when the light sensor is active in the sun sensor mode, it is not placed in the shelter of the gutter). Be aware that there are differences between summer and winter periods; the sun stand high and low. If the sensor controls a light source, the placement should be done in a way that the controlled light is not influencing the sensor in no way. Min. wire section: 0.25mm²
Connections:		By shielded cable, containing three wires (+12V/0V/signal). When more than one sensor is connected with the same cable, the signals should be shielded separately. Maximum cable length is 50m. Connect the sensor cable shielding to the AUTOBUS shielding. By means of three screw terminals

Power Consumption:	Max. 4 mA
Dimensions:	50 W x 50 H x 21 D (mm)
Gross Weight:	0,050 kg

Schematic Drawing:



Water (leak) sensor TDS12280

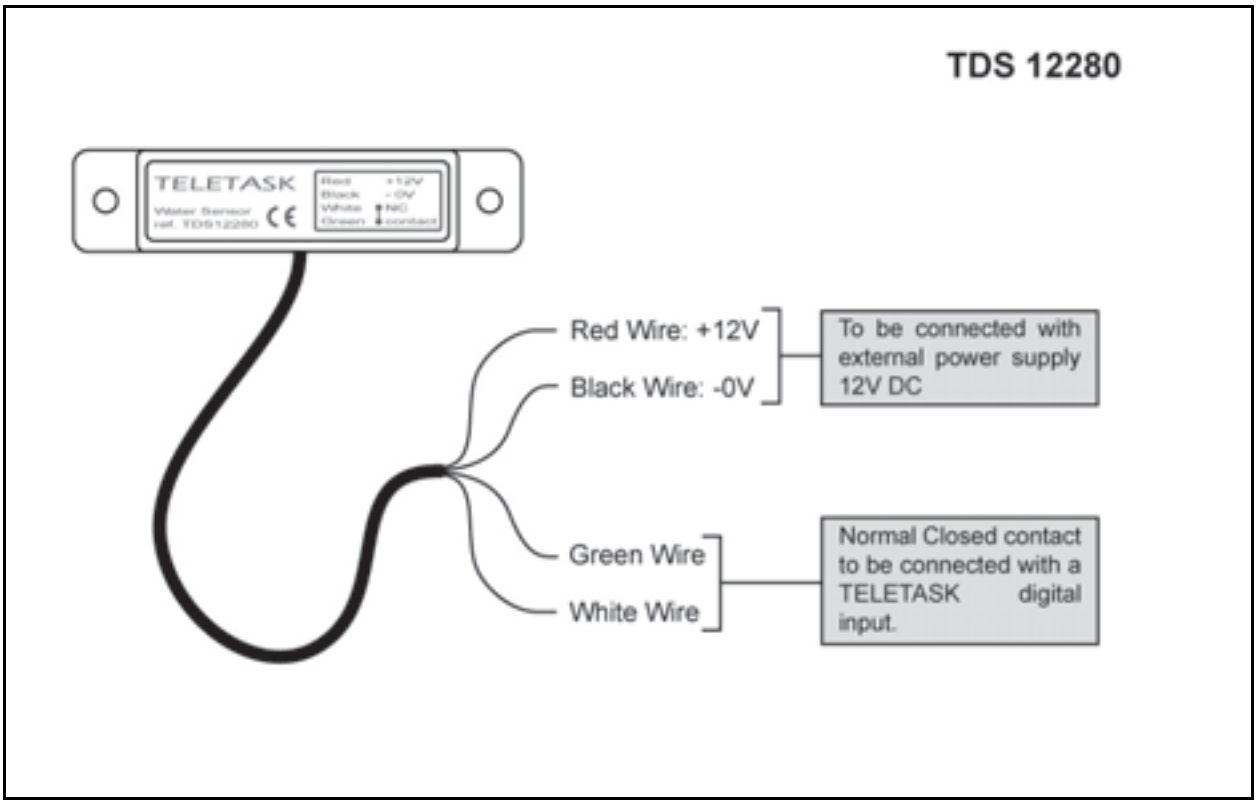
This water sensor is to be used to detect water caused by an accidental leak. Example: In the storage the sensor detects unwanted water near the washing machine.

The sensor is mounted close to the floor.

The sensor is connected to the TELETASK system using a digital input on the MICROS central unit or the digital input interfaces (TDS10012, TDS12116, TDS12124 of TDS12125).

The sensor consists of a normal closed contact. At detection of water the contact opens.

Application:		To be used to detect water caused by a leak. Only to be used in indoor application >0°C.
Characteristics:		Sensor with four wire connection. Sensor is cast in a waterproof IP65 plastic housing.
Settings:		None
Installation:		To be mounted with 2 screws on the wall at the height were the water level should be measured.
Connections:	Power Supply	+12V Red Wire -0V Black Wire External Power supply 12V Dc is needed.
	TELETASK input	Connect the white and green wire with a digital input on the central unit TDS10012 or the digital input interfaces TDS12116, TDS12124 of TDS12125.
Power Consumption:		Max. 10 mA
Dimensions:		64 W x 16 H x 14 D (mm)
Gross Weight:		0,045 kg
Schematic Drawing:		


TDS 12280
TELETASK
Red +12V
Black - 0V
White NO
Green contact
Red Wire: +12V
Black Wire: -0V
To be connected with external power supply 12V DC
Green Wire
White Wire
Normal Closed contact to be connected with a TELETASK digital input.

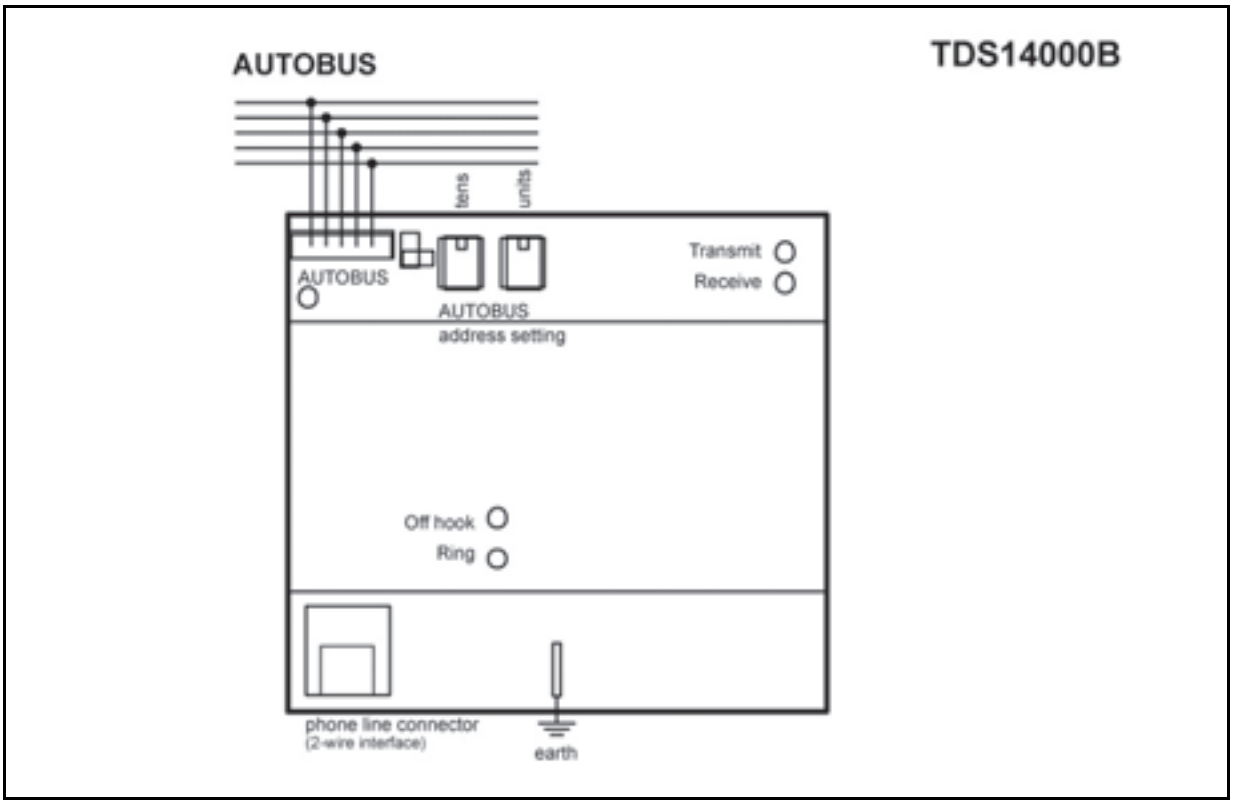
TELETOUCH telephone interface TDS14000

Two wire AUTOBUS telephone interface.

Every (DTMF) telephone can be used as an 8 button touch panel (button 1 to 8). In case the TELETOUCH is connected to an external phone line, the user need to enter a password to get access to the system. This only occurs when the number of rings is higher than 0.

The functions and the entrance message are in a user friendly and easy way changeable. This makes the TELETOUCH adaptable to the user needs and wishes.

Application:		Interface to be connected on the AUTOBUS To be used in combination with internal and external telephones.
Characteristics:		Remote control and activation of 8 domotics functions. Functions are easy adaptable Access with password (if number of rings is higher than 0) feed back through speech.
Settings:	Functions:	With PROSOFT Suite
	AUTOBUS address:	through rotary switches Tens + Units
Installation:		DIN rail mounting. To be installed in the direct neighbourhood of the telephone line connection.
Connections:	AUTOBUS:	AUTOBUS connector set + patch cable supplied with this unit
	Analogue line:	through RJ11 connector
Power Consumption:		Max. 45 mA
Dimensions:		80 W x 90 H x 60 D (mm) 4.5 modules wide
Gross Weight:		0,320 kg
Schematic Drawing:		


AUTOBUS
TDS14000B
tens
units
AUTOBUS
AUTOBUS
address setting
Transmit
Receive
Off hook
Ring
phone line connector
(2-wire interface)
earth

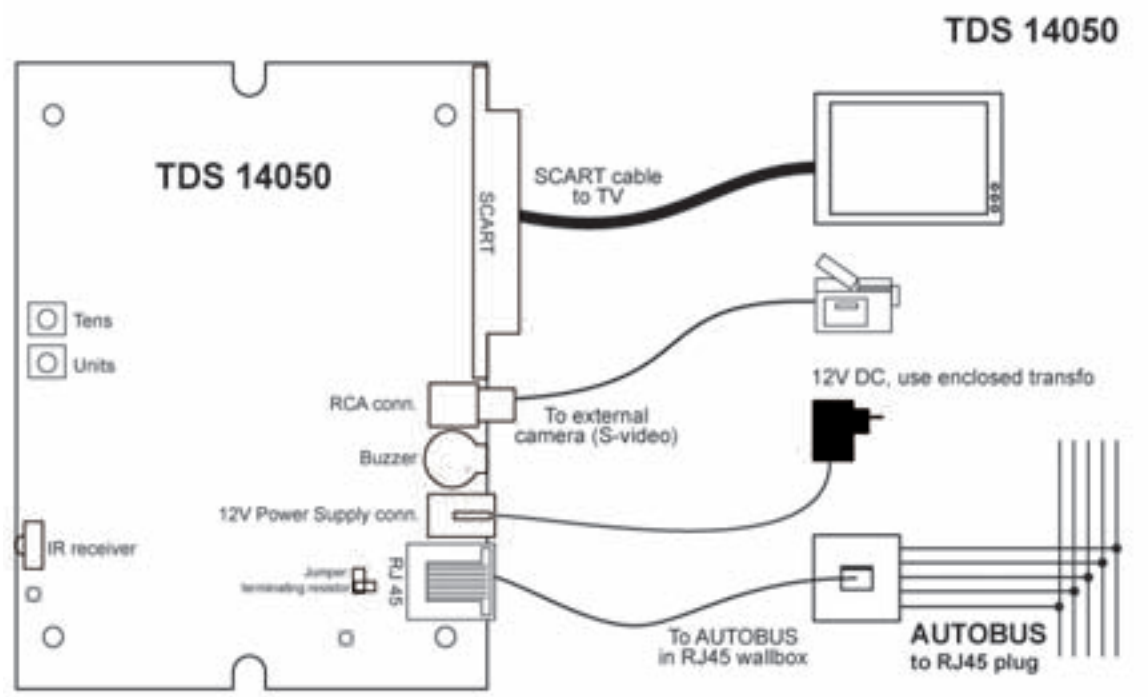
TV interface TDS14050

The TELETASK TV interface is an AUTOBUS interface. From this interface you can manage all domotic functions through the domotics remote control and a standard TV. The several functions are displayed in a user friendly menu. With the domotics remote control you surf through the several menu items, select and control the functions.

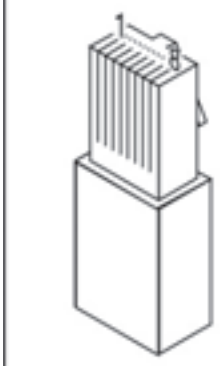
Beside this it is possible to connect a camera on the TV interface. In this way the integration of a door camera with the TV interface is a fact.

You can freely configure the interface with PROSOFT. Thanks to his freedom you can adapt the TV interface integral to your house.

Application:		User interface for the management of all domotic functions through a standard TV and the TELETASK remote control.
Characteristics:		Synthetic housing with separate power supply connector. This interface is able to generate European/ASCI characters on a TV display. Chinese, Cyrillic or any other types of graphical characters are not possible.
Settings:	AUTOBUS address	Through rotary switches ROT1+ROT2. Factory default address: 24.
	Programming	With PROSOFT Suite
Installation:		Horizontal in the neighbourhood of the TV, placed with the IR transmissive window to the front.
Connections:	AUTOBUS	With RJ45 patch cable to a standard RJ45 wall box (Be aware for the AUTOBUS connections in the wall box)
	Power supply	by enclosed 12V DC connector
	TV	through SCART connector
	Camera	through RCA connector buzzer function in PROSOFT activates the camera. Example: door bell application.
Power Consumption:		Max. 25 mA
Dimensions:		140 W x 35 H x 110 D (mm)
Gross weight:		1,080 kg
Schematic Drawing:		



AUTOBUS to RJ45 connection table



RJ45 pin	RJ45 Cable Color	AUTOBUS	
Pin 1	White/Orange	-	-
Pin 2	Orange	green wire	IR Link
Pin 3	White/Green	white wire	B
Pin 4 + 7	Blue + White/Braun	red wire	12V
Pin 5 + 8	White/Bleu + Braun	black wire	0V
Pin 6	Green	blue wire	A

iSGUI for Smartphones and Apple iPhone/iPod Touch TDS15101

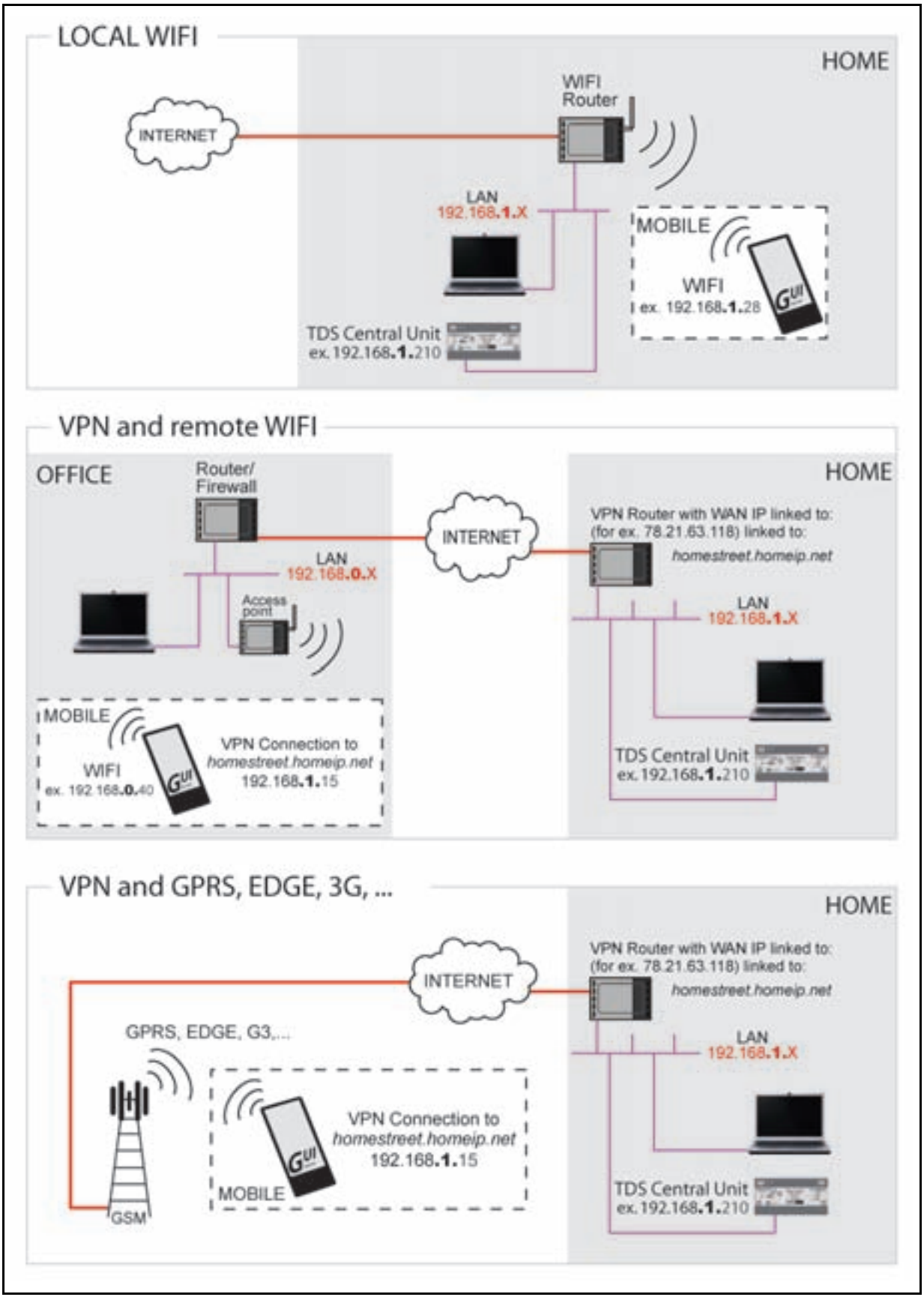
This software license provides the possibility to access all of your domotics functions from a Windows Mobile Smartphone and iPhone/iPhone Touch devices: lights, heating/cooling, doors, gates, curtains, shutters, … moods, motors, sensors, audio,… and camera's.

The configuration of the GUI screens is very easy. The software will copy all the rooms & all functionalities directly and automatically from your nbt file. No extra configuration is needed.

The iSGUI is designed to run on the latest generation of Windows mobile Smartphones and Apple devices with or without touch-screen and rotational features.

Application:		Remote control of all functions using a dedicated phone.
Characteristics:	Target device	For Windows Mobile 6.0 (or higher) devices. Works on a QVGA, VGA and WVGA (800x480) screens. Apple iPhone (3G) and iPod Touch phones.
	Camera	For the camera function on the GUI, use IP Camera's that support 'Motion JPEG' (M-JPEG) video.
Settings:	Configuration	Automatic configuration based on rooms and icons in the .nbt file. Manual configuration and manual fine-tuning of the screen menu's is also possible.
Installation:		Smartphones: Via GUISOFT (starting from PROSOFT Suite 3.1 software or higher). For detailed information on how to make and install the GUI for Smartphones files, see the installation manual for TDS15101. Apple phones: via Apple iTunes and GUISOFT.
	Activation	Request by e-mail to support@teletask.be. An activation file will be send if the following data is provided: **License code (included in package), Type- and serial number of the central unit**.
	Test mode	Test mode available (without license) during maximum 3 days.
Connections:	LAN	Through a Wi-Fi Access point or router with WIFI.
	WAN	Through Wi-Fi hotspot or mobile data connection (GPRS, EDGE, 3G, HSDPA…), secured with VPN connection. A mobile data subscription and router with VPN technology are required. See for more detailed information in the installation manual.
Package Dimensions:		175 W x 250 H x 3 D (mm)
Package Weight:		0,1 kg
Package content:		License code for GUI for Smartphones and Apple iPhone/iPod Touch, CD-Rom with installation files, Installation manual.

Schematic Drawing:



GUI

TDS15100

This software tool provides the possibility to have central access to all of your domotic functions from any Windows XP/Vista desktop, laptop or ultra mobile PC.

The GUI allows you to control all domotics functions, in an intuitive manner, using floor plans, pictures or schematics of your house/project. By “drag an drop” from a library with about 1000 icons it is possible to create a beautiful graphical user interface.

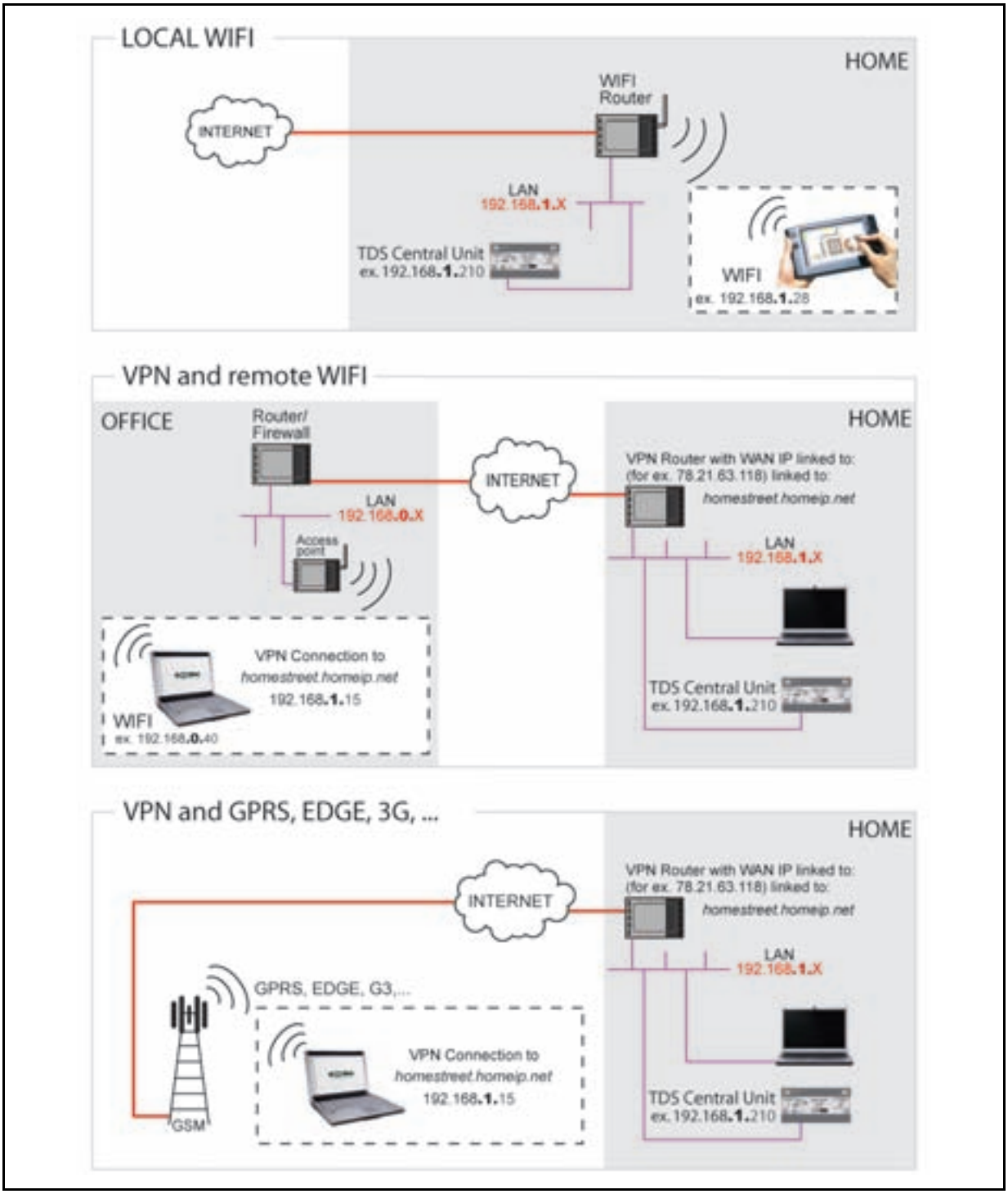
This application is free for download at www.teletask.eu and can be used in demo-mode for 3 days.

Permanent licence is provided when purchased.

Application:		Local and remote control of all domotics functions using a desktop, laptop or ultra mobile PC.
Characteristics:		For Windows XP / Windows Vista. Works in “full screen” or “window” mode. The licence provides **one connection** between a DOIP Central Unit (MICROS+ or NANOS) and the connected GUI. This is independent from the device on which the GUI runs. The GUI can easily be installed on multiple devices but in order to use multiple GUI’s at the same time, they will all need an individual licence. !!! IMPORTANT REMARK: for older systems with MICROS, COMPACT, or PROJECT Central Units the licence depends on the device on which the GUI was installed (PC)!
	Camera	For the camera function on the GUI, use IP Camera’s that support ‘Motion JPEG’ (M-JPEG) video.
Settings:		Easy “drag and drop” configuration in PROSOFT Suite
Installation:		Via GUISOFT (starting from PROSOFT Suite 2.80.1 software version, or higher). For detailed information on how to generate and install the necessary GUI files, see the installation manual.
	Activation	Request by e-mail to support@teletask.be. An activation file will be send if the following data is provided: **License code (included with the package), Type- and serial number of the central unit.**
	Test mode	Available (without activation) for a maximum of 3 days.
Connections:	LAN	Through Ethernet or via a Wi-Fi Access point/router..
	WAN	Through Ethernet, Wi-Fi hot spot or mobile data connection (GPRS, EDGE, 3G, HSDPA, …), secured with a VPN connection. A mobile data subscription and router with VPN technology are required. See for more detailed

	information in the installation manual.
Package dimensions:	175 B x 250 H x 3 D (mm)
Package weight:	0,1 kg
Package content:	Licence code for GUI. CD-Rom with installation files. Installation manual.

Schematical drawing:

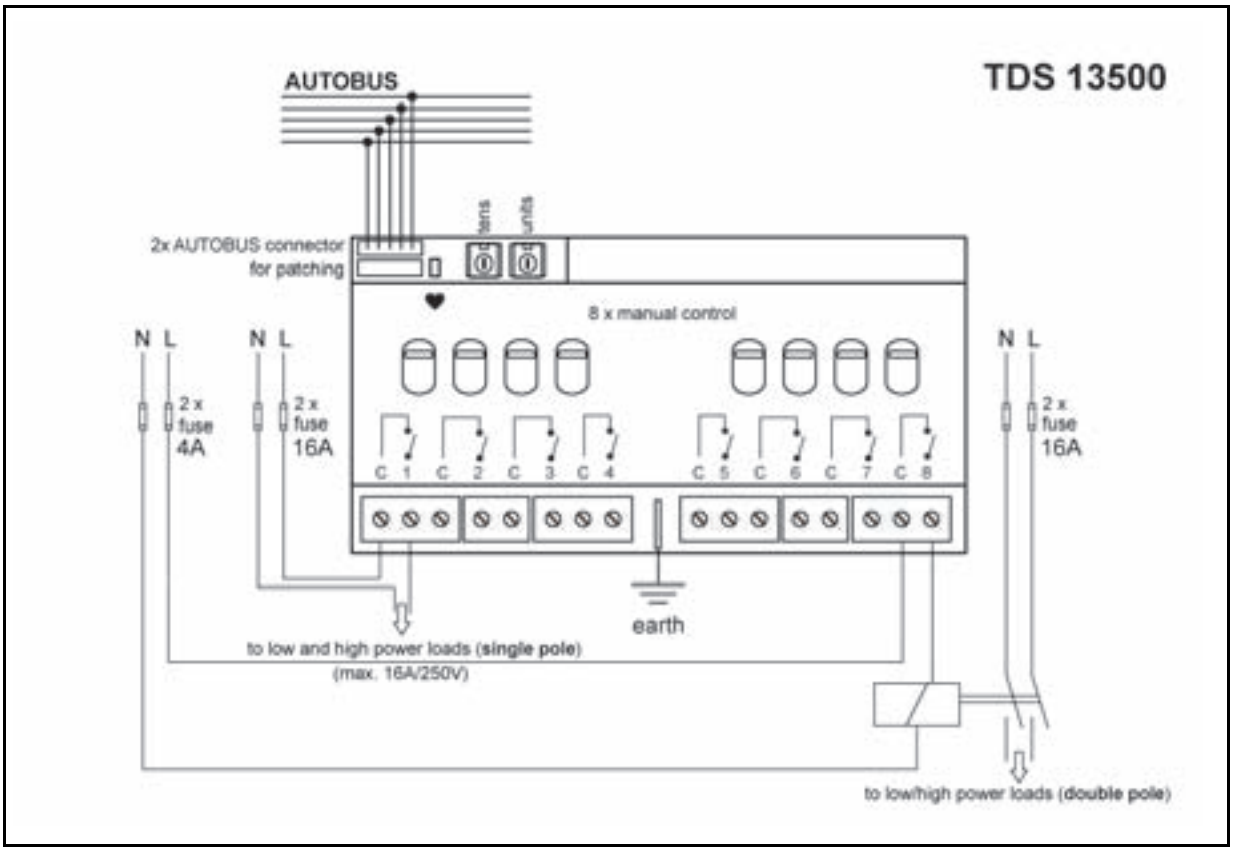


Relay interface 8x16A on the AUTOBUS TDS13500

The TDS13500 is a 'zero power consumption' high contact rating output interface to be connected on AUTOBUS. Each output contact has a 16A/230V rating and is during communication disruption on AUTOBUS to be set manually.

Application:		To be used when AUTOBUS connection or high power contacts are needed. The manual control of the output contacts makes this module attractive to be used to control critical circuits (for example to control some basic light circuits in the house).
Characteristics:	General	8 single pole, normal open relays. Switching power per relay output: IN = 16A/230V (minimum load 5W) IHI = 100A (see Remark: Inrush Currents) Full manual control available. The contacts remain in their position when power (on AUTOBUS) fails.
	Relay	contact material AgCdO-AgNi max. switching power 4000 VA max. switching current 16 A mechanical life 10 000 000 test voltage 4000 V eff. (coil-contact) test voltage 1000 V eff. (open contact)
Settings:	Configuration	With PROSOFT, from version 2.50
	AUTOBUS address	through rotary switches ROT1 + ROT2
	Jumpers	JP1+JP2: baud rate (standard 9600) JP3: terminating resistor (stand. Off)
Installation:		DIN-rail mounting | 9 modules
Connections:	Central unit:	AUTOBUS connector set + patch cable supplied with this unit
	Contacts	Screw terminals; max. 4mm² (solid) or 2,5mm² (stranded)
Power Consumption:		Max. 150 mA
Dimensions:		162 W x 90 H x 60 D (mm)
Gross weight:		0,560 kg

Schematic Drawing:

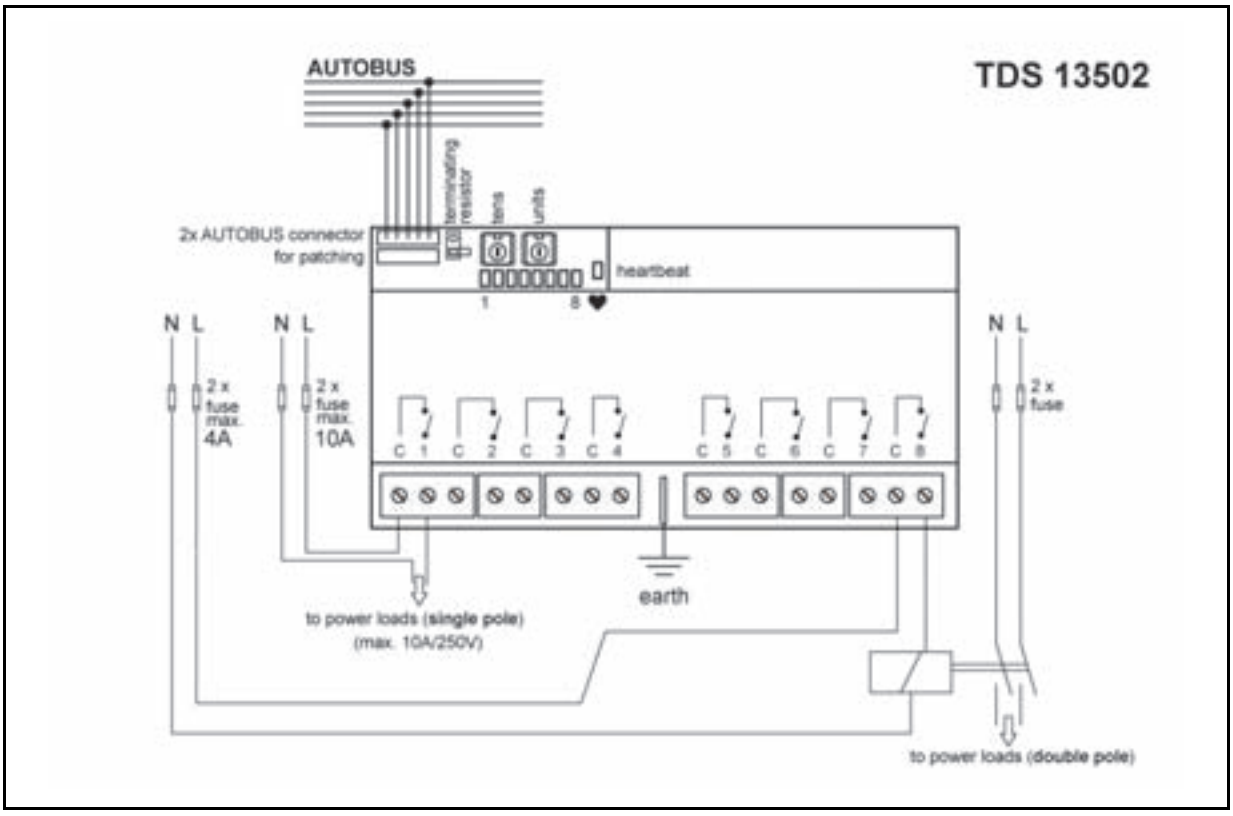


Relay interface 8x10A on the AUTOBUS TDS13502

The TDS13502 relay interface to be connected to the AUTOBUS with 8 output contacts 10A/230V for general purpose ON/OFF or pulse control. The internal relays are plug-in type, for easy replacement.

There is one common connection for every 4 contact outputs.

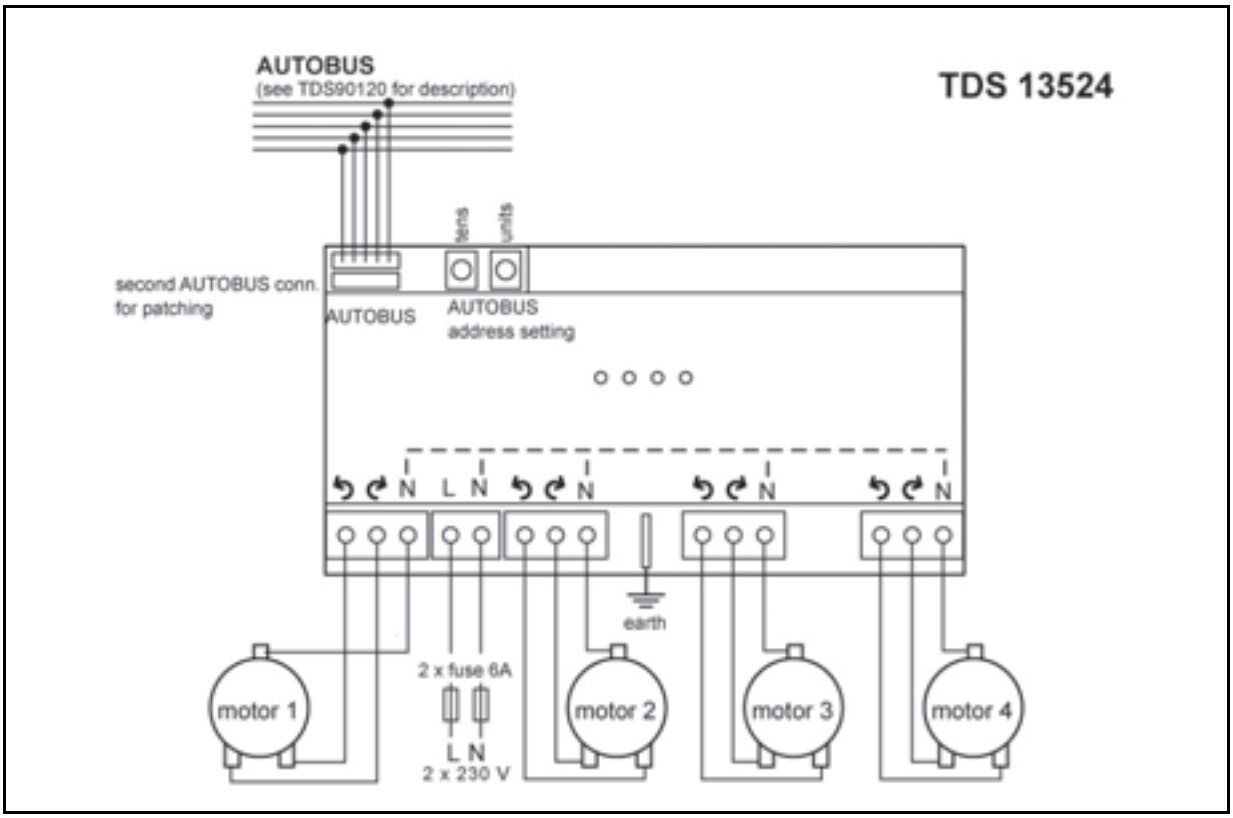
Application:		relay interface 8x10A for ON/OFF/pulse control of the connected device.
Characteristics:	General	8 single pole, normal open relays + common for every contact outputs. Switching power per relay output: I_N = 10A/250V I_{HI} = 65A (see Remark: Inrush Currents) mono stable relays. Contact is always open when not powered via AUTOBUS
Settings:	Programming	As of PROSOFT 3.2.0.60 (earlier versions, program as TDS13500)
	AUTOBUS address	With rotary switches “Tens” + “Units”
Installation:		DIN-rail mounting | 9 modules
Connections:	AUTOBUS	AUTOBUS connector set + patch cable supplied with this unit
	Contacts	Screw terminals; max. 4mm² (solid) or 2,5mm² (stranded)
Power Consumption:		Max. 350 mA (all relays ON)
Dimensions:		162 W x 90H x 60 D (mm)
Net | Gross weight:		0,450 kg | 0,600 kg
Schematic Drawing:		


TDS 13502
AUTOBUS
terminating resistor
tens
units
2x AUTOBUS connector for patching
heartbeat
1
8
N L
2 x fuse max. 4A
N L
2 x fuse max. 10A
C 1 C 2 C 3 C 4 C 5 C 6 C 7 C 8
N L
2 x fuse
earth
to power loads (single pole)
(max. 10A/250V)
to power loads (double pole)

AUTOBUS motor interface TDS13524

Motor interface to control up to 4 AC motors as there are for curtains, shutters, sun blinds… The interface is developed to be connected on the AUTOBUS.
Max. 350VA motor (6A/240V AC in total)

Application:		Output interface for controlling low power 230V motors for curtains, sun blinds… The interface is defined by a decentralized connection on the AUTOBUS network
Characteristics:		4 motor controllers for 230V AC motors maximum load: 4 x 350W
Settings:	Programming	With PROSOFT, from version 2.50
	AUTOBUS address	With rotary switches Tens + Units
Installation:		DIN rail mounting. Note: AC motors should never be connected in parallel.
Connections:	AUTOBUS	AUTOBUS connector set + patch cable supplied with this unit
	Motor power supply	Input: 2 x 230V AC / 6A (max. 6A fuses)
	Motor connections	Output: com. + left + right (4 x) 230V AC)
Power Consumption:		Max. 105 mA
Dimensions:		162 W x 90 H x 60 D (mm) About 10 modules
Gross Weight:		0,500 kg
Schematic Drawing:		


AUTOBUS
(see TDS90120 for description)
TDS 13524
tens
units
second AUTOBUS conn.
for patching
AUTOBUS
AUTOBUS
address setting
N L N N N N
earth
2 x fuse 6A
L N
2 x 230 V
motor 1
motor 2
motor 3
motor 4

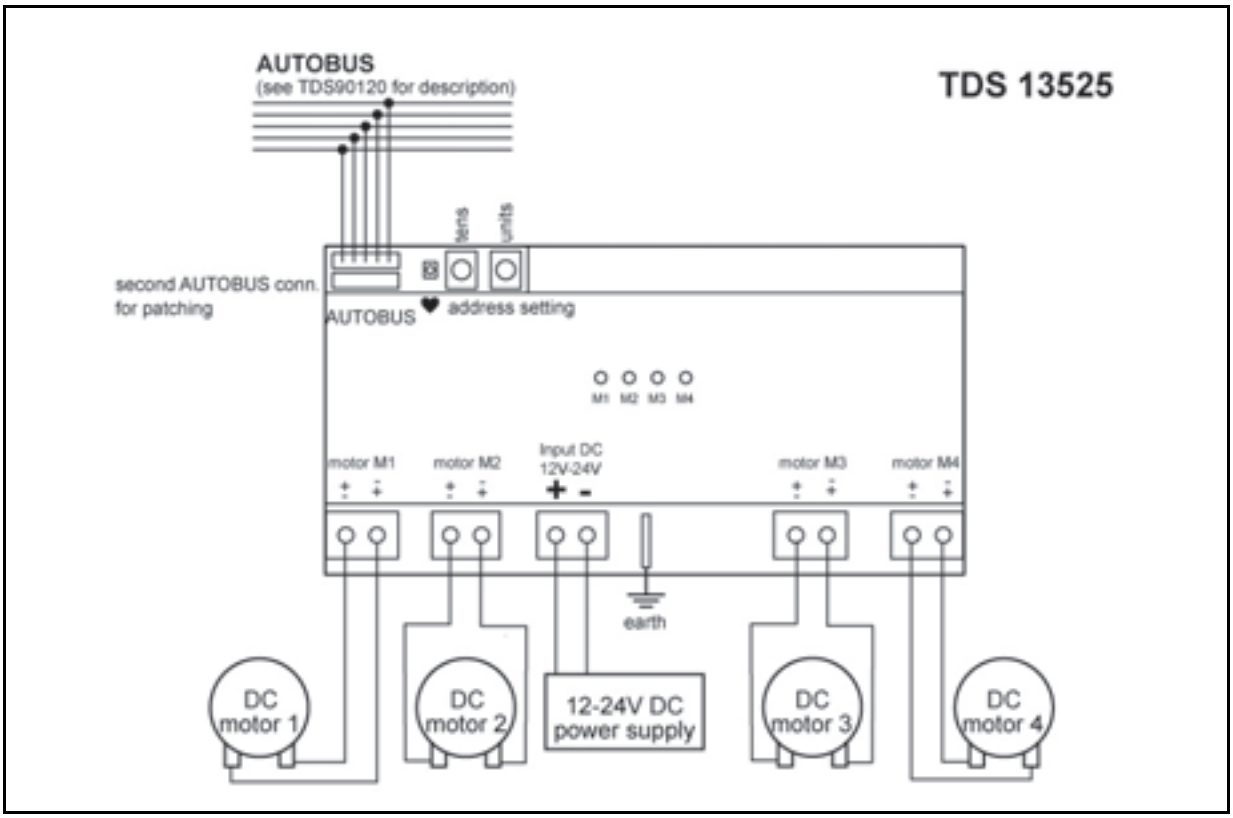
DC motor interface on AUTOBUS TDS13525

The DC motor interface is designed to control DC motors, often found in curtains, roof mounted sun blinds, small Venetian blinds, etc… The interface can control up to four DC motors with supply voltages from 12 and 24VDC. The interface is provided with short-circuit and overload protection.

The interface has a double AUTOBUS connection for easy and fast cascading of AUTOBUS rail mount interfaces.

Nominal motor current can be up to 2A per motor (8A/12-24V DC in total)

Application:		Output interface to control low voltage DC motors with a supply voltage of 12 to 24VDC as used in electrical curtain systems, sun blinds, etc…
Characteristics:		4 motor outputs with a nominal load of up to 2A per motor.
Settings:	Programming:	Via PROSOFT, starting with version 2.75 (use as a 'TDS13524' with version 2.63 up to 2.73)
	AUTOBUS address:	With rotary switches Tens + Units
Installation:		DIN rail mounting
Connections:	AUTOBUS:	AUTOBUS connector set + patch cable supplied with this unit
	Motor power supply:	Depending on the motor voltage: 12-24V (30VDC max.) / 8Amp
	Motor connections:	+/- motor connection
Power Consumption:		Max. 252 mA; standby 20 mA
Dimensions:		162 W x 90 H x 60 D (mm) About 10 units
Gross Weight:		0,450 kg
Schematic Drawing:		

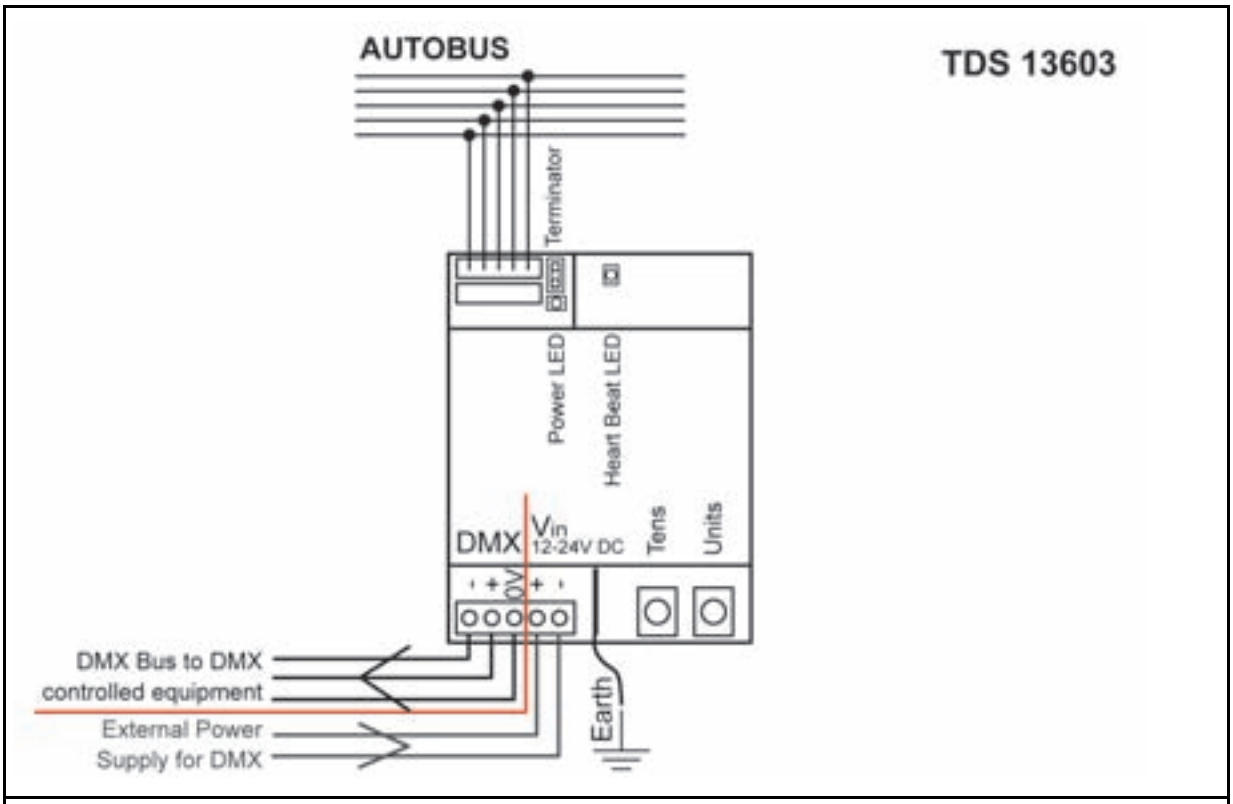

AUTOBUS
(see TDS90120 for description)
TDS 13525
tens
units
second AUTOBUS conn.
for patching
AUTOBUS
address setting
M1 M2 M3 M4
motor M1
motor M2
Input DC
12V-24V
motor M3
motor M4
earth
DC
motor 1
DC
motor 2
12-24V DC
power supply
DC
motor 3
DC
motor 4

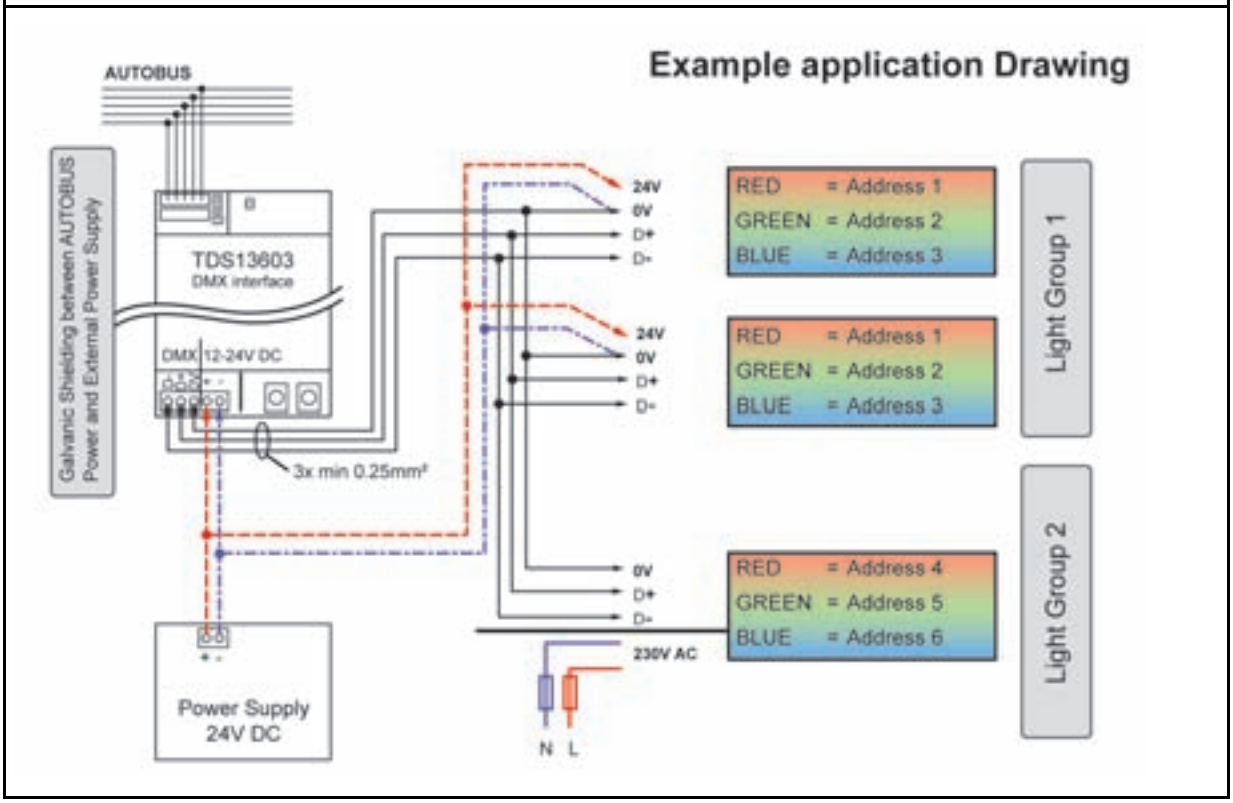
DMX Interface TDS13603

TheTDS13603 DMX interface can integrate up to 32 DMX compliant channels with the TELETASK domotics system (ex. 10 x DMX-RGB lighting unit + 2 independent DMX devices).

The interface is especially suitable to control multicolour LED systems which are provided with a standard DMX input.

Application:		Output interface to control 32 DMX compliant channels
Characteristics:		DMX output to the DMX bus for the integrated control of maximum 32 DMX channels. In the TDS13603 the DMX bus is galvanic isolated from the AUTOBUS by use of the external supplied power supply. External power 12 to 24VDC is to be provided by an (optional) separated power supply (most DMX light devices have a power output available which can be used for this).
Settings:	AUTOBUS address	Via two rotary switches 'Tens' and 'Units'
	DMX interface	Via PROSOFT Suite 2.80 or higher. The interface uses 4 AUTOBUS addresses. Setup the interface with the first AUTOBUS Address (=the lowest).
	DMX output address	Fixed: 1 to 32
Installation:		DIN rail mounting | 3.5 modules
Connection:	AUTOBUS	AUTOBUS connector set + patch cable supplied with this unit
	DMX	Screw terminals max. 1,5mm² (solid or stranded) always use shielded cable with twisted pair wires
	Power Supply	Screw terminals max. 1,5mm² (solid or stranded)
Power Consumption:	AUTOBUS	Max. 25 mA
	External Power Supply	1 Watt (12V: max 100mA | 24V: max. 50mA)
Dimensions:		63 W x 90 H x 60 D (mm)
Net | Packed Weight:		0,132 kg | 0,220 kg
Schematic Drawing		

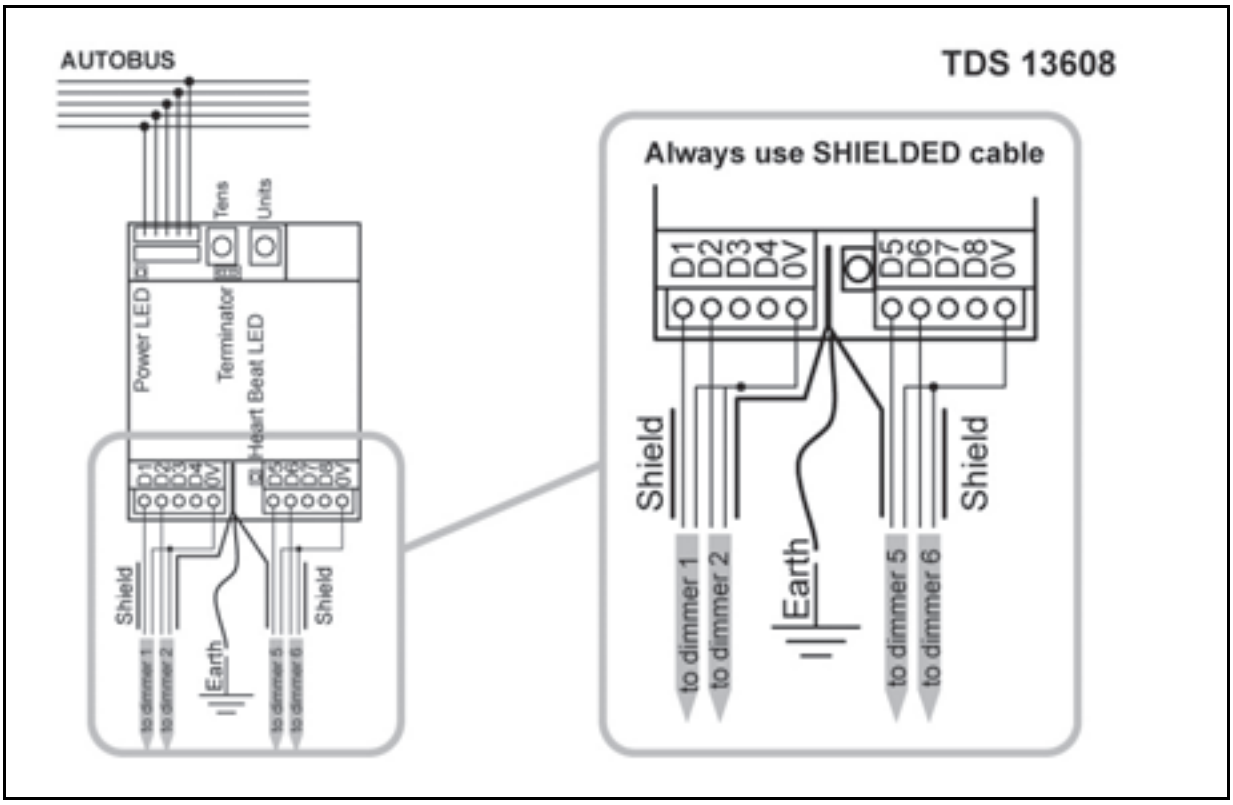

AUTOBUS
TDS 13603
Terminator
Power LED
Heart Beat LED
DMX
Vin
12-24V DC
0V
Tens
Units
DMX Bus to DMX
controlled equipment
External Power
Supply for DMX
Earth


Example application Drawing
AUTOBUS
Galvanic Shielding between AUTOBUS
Power and External Power Supply
TDS13603
DMX interface
DMX 12-24V DC
3x min 0.25mm²
24V
0V
D+
D-
RED = Address 1
GREEN = Address 2
BLUE = Address 3
Light Group 1
RED = Address 4
GREEN = Address 5
BLUE = Address 6
Light Group 2
230V AC
N L
Power Supply
24V DC

AUTOBUS Dimmer output Interface 0 to 10V TDS13608

Dimmer output interface with 8 analog outputs 0-10V to be connected on the AUTOBUS to control maximum 8 power dimmers with galvanic isolated 0-10V inputs.

Application:		Output unit to be connected on the decentralised AUTOBUS network to control power dimmers for lighting control.
Characteristics:		8 analog outputs 0-10V (power control) with earth connector for the connection of the shielding to the dimmer units cable. Earth connector to connect the shielding of the obliged shielded cable. Max. cable length between dimmer 0-10V control output and the dimmer is 25m Output impedance (0-10V): 500Ω
Settings:	Dimmer Settings	With PROSOFT starting with version V2.75
	AUTOBUS address	Through rotary switches ‘Tens’ + ‘Units’
	Jumpers	JP1: AUTOBUS terminating resistor (standard open)
Installation:		DIN rail mounting
Connections:	AUTOBUS	AUTOBUS connector set + patch cable supplied with this unit
	Outputs	With the screw connectors 1,5 mm² (solid or stranded) One common 0V output is provided per 4 outputs
Power Consumption:		Max. 70 mA
Dimensions:		63 W x 90 H x 60 D (mm)
Net | Gross weight:		0,132 kg | 0,220 kg
Schematic Drawing:		


AUTOBUS
TDS 13608
Always use SHIELDED cable
Tens
Units
Power LED
Terminator
Heart Beat LED
D1
D2
D3
D4
0V
D5
D6
D7
D8
0V
Shield
Earth
to dimmer 1
to dimmer 2
to dimmer 5
to dimmer 6

Fluorescent Dimmer Interface 1 to 10V TDS13610

The TDS13610 fluorescent dimmer interface has 8 analog 1-10V outputs to control dimmable fluorescent lights. The interface also provides the necessary 8 output contacts to switch the main power supply to the 8 dimmed light units.

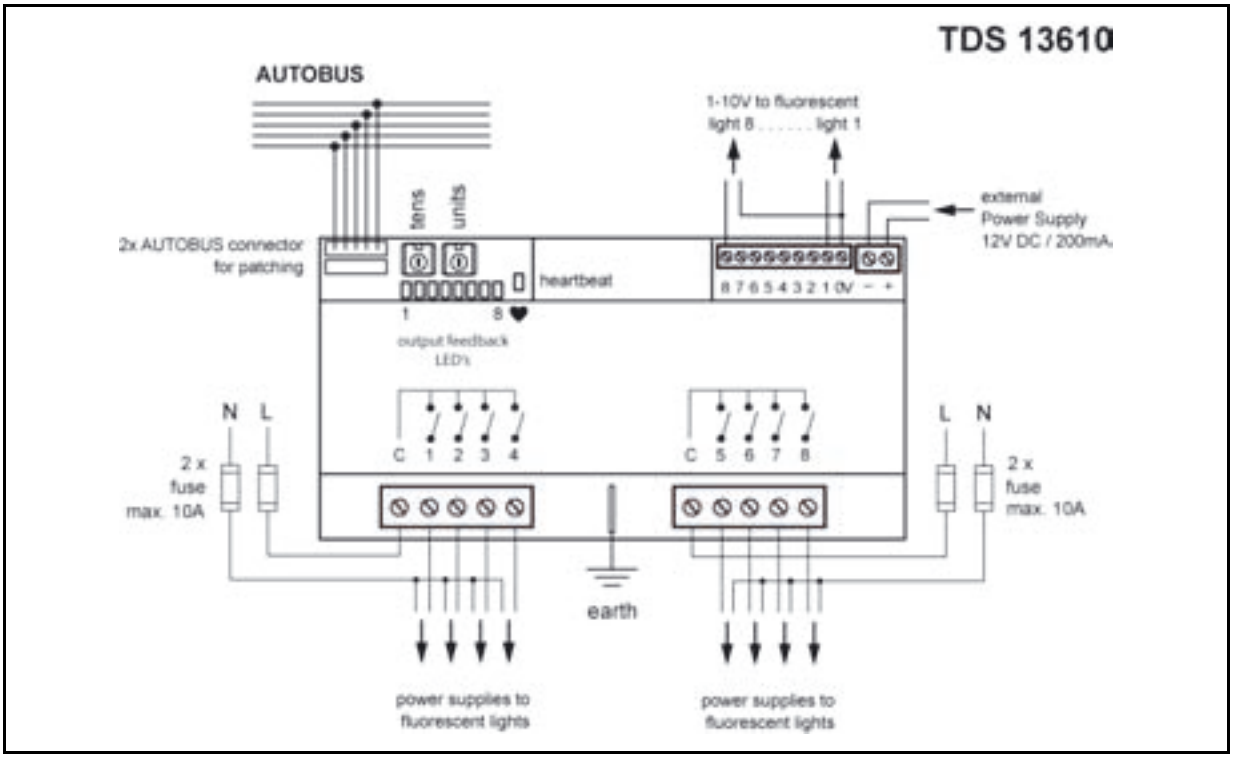
Otherwise, using PROSOFT Suite V3.0 or higher, you can set the analog outputs as 0-10V outputs. In addition, the contact outputs can be used as standard output contacts, totally independent of the 0-10V outputs. (this can be combined for every 4 channels)

To supply the galvanic isolated output electronics, use a separated/ isolated 12V power supply (optional available ref. TDS10130).

Application:		Analog output interface to control dimmable fluorescent lights (or alternative use as described above).
Characteristics:	Relays	The 8 relays are plug-in type and can be replaced individually if necessary. (Cover need to be released with one screw.) I_N = 10A/250VAC cos φ 0,7 I_{HI} = 80Amp (20ms) (see Remark: Inrush Currents) There is one common by 4 relays
	Analog	The analog outputs are galvanic isolated from the AUTOBUS
	1-10V	max. 5mA (= aprox. 25 HF-DIM)
	0-10V	load min. 50Kohm Output impedance (0-10V/1-10V): 33Ω
Settings:	AUTOBUS address	Via rotary switches ‘Tens’ + ‘Units’
	PROSOFT Suite	Via PROSOFT Suite 3.0 or higher as: 8 x 1-10V or 4 x 1-10V + 4 x 0-10V + 4 x indep. Relays or 8 x 0-10V + 8 x independent relays Via PROSOFT 2.80 to be programmed as TDS13608 (only for 8 x 1-10V output)
Installation:		DIN rail mounting (9 units wide).
Connection:	AUTOBUS	AUTOBUS connector set + patch cable supplied with this unit.
	External Power Supply (12 VDC/ 200mA)	Screw terminals; max. 4mm² (solid) or 2,5mm² (stranded)
	0-10V | 1-10V output	Screw terminals; max. 1,5mm² (solid or stranded)
	Relay output	Screw terminals; max. 4mm² (solid) or 2,5mm² (stranded)

Power Consumption:	AUTOBUS	350 mA maximum (all relays on)
	Power Supply Input	200 mA maximum
Dimensions:		162 W x 90 H x 60 D (mm)
Net | Packed Weight:		0,450 kg | 0,600 kg

Schematic Drawing:



AUTOBUS Interface for DALI / DSI / DMX TDS13620

TDS13620 is a TELETASK- AUTOBUS interface for DALI / DSI / DMX. It can be configured to integrate up to 64 DALI ballasts or 1 DSI output or 64 DMX compliant channels in combination with the TELETASK domotics system.

The interface is suited for controlling monochrome and multicolour ballasts and lighting units with DALI, DSI or DMX control input. The interface supports ramp speeds up to 1 hour, also for DALI/DSI.

The TDS13620 interface has a manual override button and an external override input which can be used in case of emergency/evacuation.

Advantage of DSI over DALI: In case of failure or replacement of DSI lamp control gear, the unit replaced does not need to be re-addressed/configured.

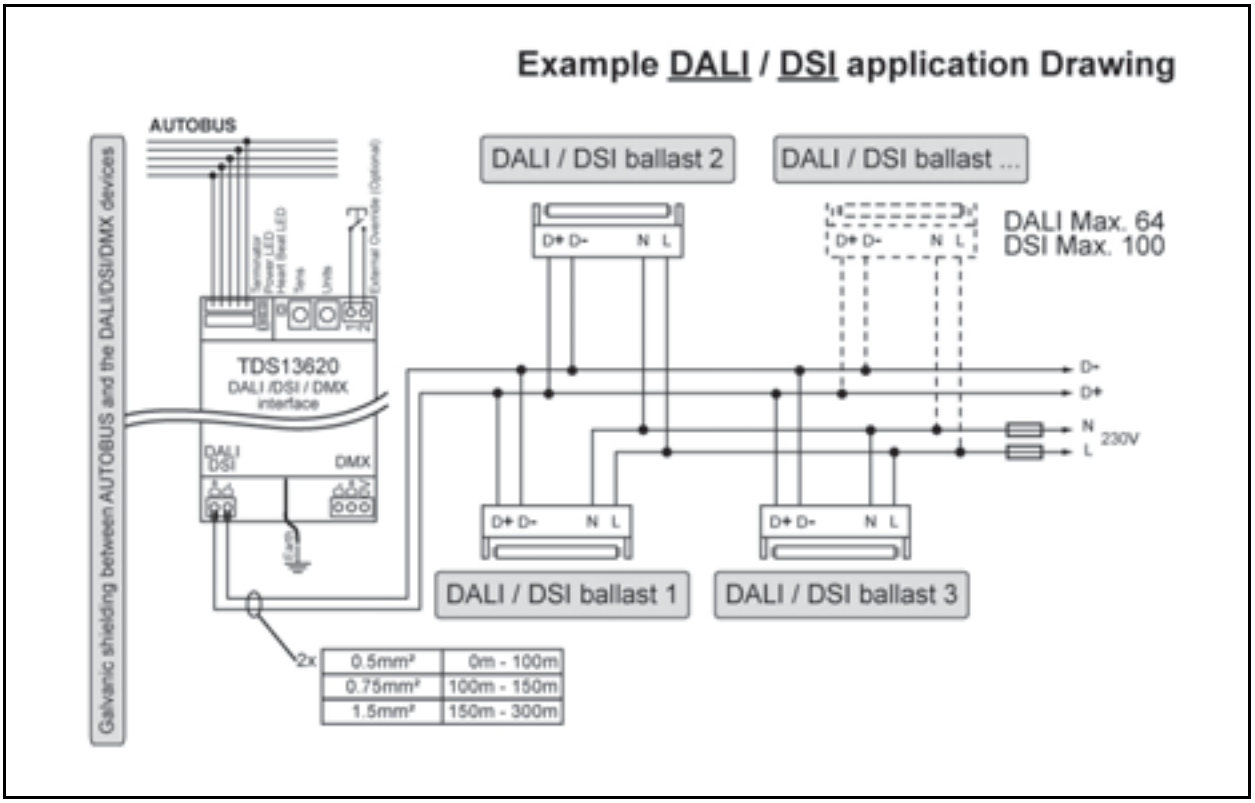
Advantage of DALI/DSI over 1-10V: It dims to off, so no mains switching equipment is required to turn them off.

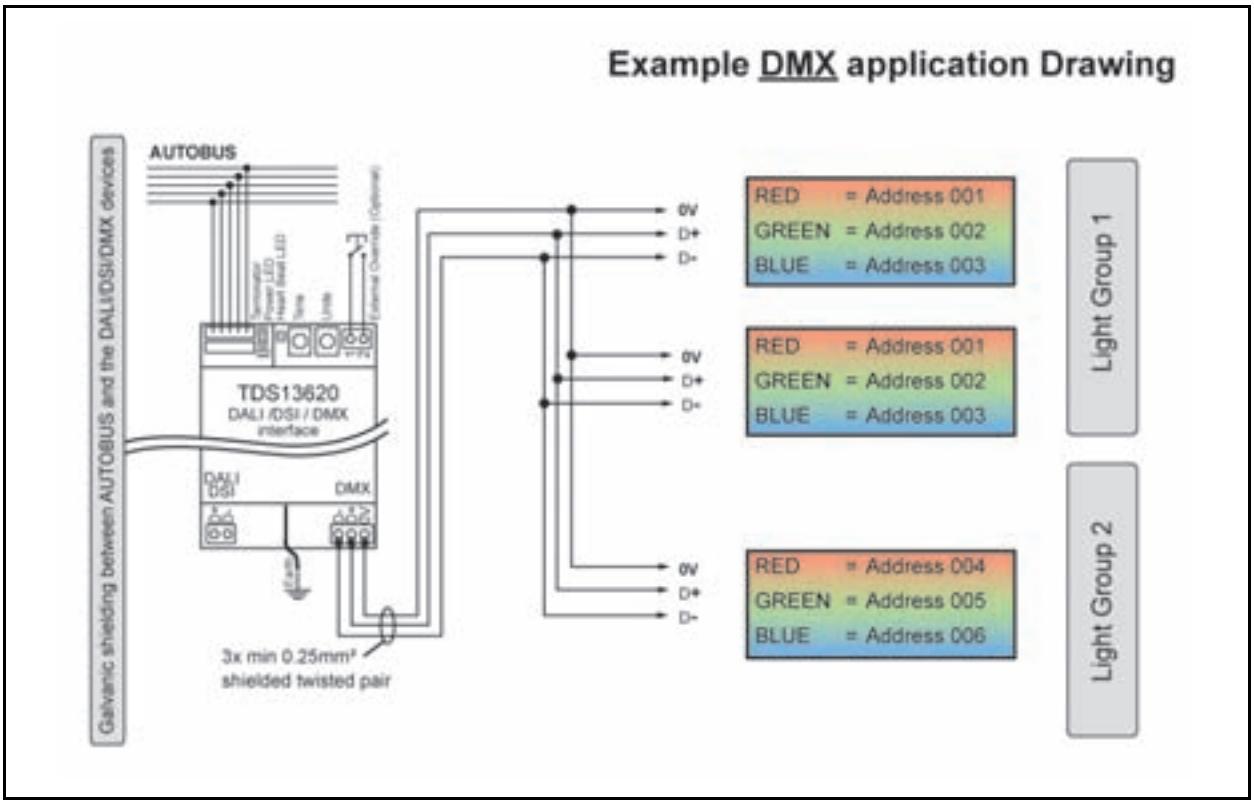
Advantage of DALI: individual (addressable) and grouped control, including feed-back when ballast or lamp is defect.

Application:		Output interface to control 64 DALI or 1 DSI or 64 DMX compliant channels
Characteristics:	Outputs	DALI output: up to 64 DALI ballasts/addresses DSI output: 1 DSI output / 100 ballasts DMX output: up to 64 DMX channels/addresses The DALI / DSI / DMX bus is 1500V galvanic isolated from the AUTOBUS (higher available on request). Build-in DALI/DSI power supply. No external power supply is needed.
	Override	Manual button: When clicked on the manual override the output alters to 40% (LED blinking) to 100% (LED ON) to normal/OFF (LED OFF). As soon as an AUTOBUS command is received, the manual override will get ignored until pushed again. External contact: Must be a voltage free contact within 100m away from the interface. When the external contact is closed, the output will be 100% (LED ON). If this contact is used, it may be necessary to implement this feature into the emergency evacuation plan of the concerned area.
Settings:	AUTOBUS address	Via two rotary switches 'Tens' and 'Units'
	Output	Via PROSOFT Suite 3.3 or higher
	DALI output address	The ballast must be configured before connecting, by dedicated tool of the ballast supplier. All 16 groups are automatically used.
	DSI output address	Not applicable
	DMX output address	0 to 255 (max. 64 addresses can be defined)
Installation:		DIN rail mounting | 3.5 modules

Connection:	AUTOBUS	AUTOBUS connector set + patch cable supplied with this unit
	DALI / DSI / DMX	Screw terminals for wires max. 1.5mm² (solid or stranded). DMX: Always use shielded cable with twisted pair wires (two needed for DMX data and 1 for 0V signal) DALI/DSI wire sections: 0.5mm² for total cable length 0-100m 0.75mm² for total cable length 100m-150m 1.5mm² for total cable length 150m-300m Override input: voltage free contact 0.34mm² for total cable length 0-100m
Power Consumption:	AUTOBUS	Min. 140mA (DMX or 1 DSI / DALI ballast connected) + 2.5mA for every DSI / DALI ballast connected DALI = Max. 300mA DSI = Max. 390mA
Dimensions Net | Packed:		63W x 90H x 60D | 180W x 84H x 107D (mm)
Weight Net | Packed:		0.139kg | 0.227kg
IP protection rate:		IP21

Schematic Drawings:

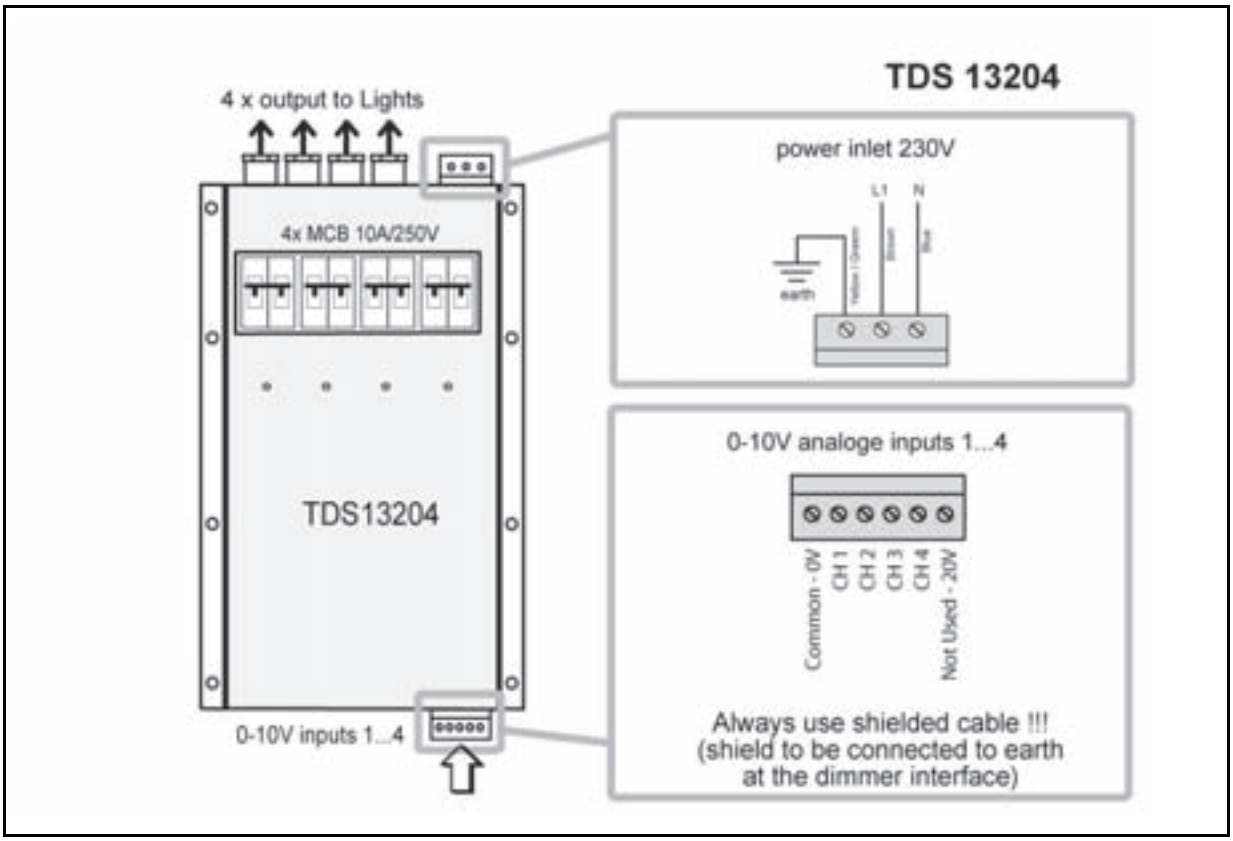



Example DMX application Drawing
AUTOBUS
Galvanic shielding between AUTOBUS and the DALI/DSI/DMX devices
TDS13620
DALI /DSI / DMX
interface
DALI
DSI
DMX
3x min 0.25mm²
shielded twisted pair
0V
D+
D-
RED = Address 001
GREEN = Address 002
BLUE = Address 003
RED = Address 001
GREEN = Address 002
BLUE = Address 003
RED = Address 004
GREEN = Address 005
BLUE = Address 006
Light Group 1
Light Group 2

High power dimmer unit 4 channels 'PRO' series TDS13204

4 x 2200VA dimmer unit with 4 x 0-10V input and double pole output short circuit protection.

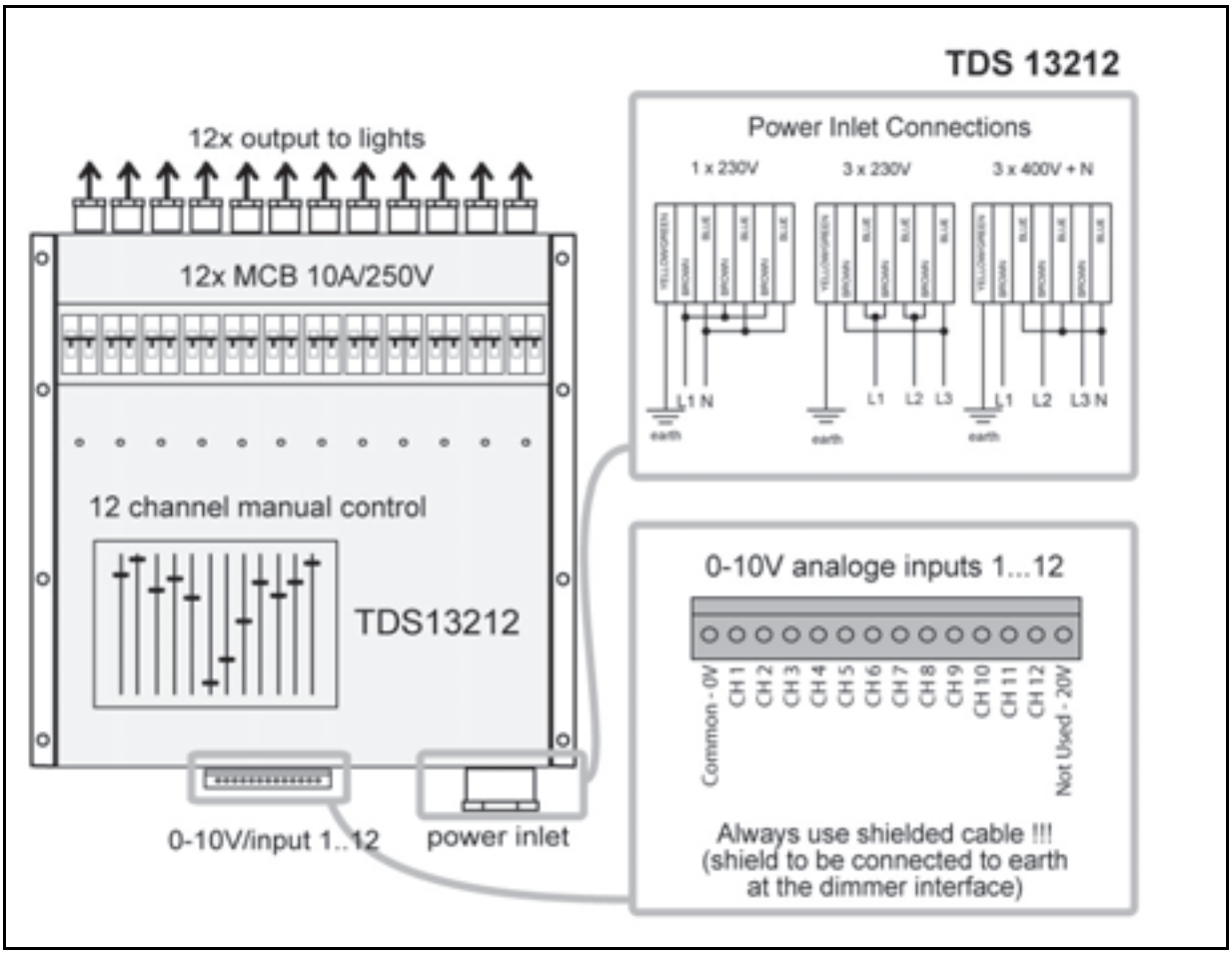
Application:		Dimmer unit to be connected to the 0-10V outputs (like on MICROS+ TDS10012 and TDS13608 interface).
Characteristics:		4 channels of 2200 VA each. To control resistive and inductive loads. The power supply is 230V. Each dimmer channel has led –level indicator.
Settings:		With PROSOFT Suite Internal pre-heat settable.
Installation:		To be mounted on a flat surface.
Connections:	0-10V signal inputs	Screw terminals (4 x control input, 1 x ground).
	Power supply	Screw terminals 6 mm²
	Outputs	Screw terminals directly on the short circuit protectors.
	Earth	Earth rail
Power Consumption:		Not applicable
Dimensions:		180 W x 440 H x 90 D (mm)
Gross weight:		6,540 kg
Schematic Drawing:		


TDS 13204
4 x output to Lights
4x MCB 10A/250V
TDS13204
0-10V inputs 1...4
power inlet 230V
L1
N
earth
0-10V analoge inputs 1...4
Common - 0V
CH 1
CH 2
CH 3
CH 4
Not Used - 20V
Always use shielded cable !!!
(shield to be connected to earth
at the dimmer interface)

High power dimmer unit 12 channels 'PRO' series TDS13212

12 x 2200VA dimmer unit with 12 x 0-10V input and double pole output short circuit protection.

Application:		Dimmer unit to be connected to 0-10V control signals (like on the MICROS+ TDS10012 central unit and TDS13608 interface).
Characteristics:		12 channels of 2200 VA each, with manual override control (very useful during set-up of the electrical installation, to activate the connected light circuits, when no central unit is available or programmed yet). To control resistive and inductive loads. The power supply can be 230V or 400V+N, single phase or three phases. Each dimmer channel has led –level indicator.
Settings:		With PROSOFT Suite. Internal pre-heat settable
Installation:		To be mounted on a flat surface.
Connections:	0-10V signal inputs	Screw terminals (12 x control input, 1 x ground).
	Power supply	Screw terminals 6 mm²
	Outputs	Screw terminals directly on the short circuit protectors.
	Earth	Earth rail
Power Consumption:		Not applicable
Dimensions:		483 B x 540 H x 105 D (mm)
Gross weight:		30,6 kg
Schematic Drawing:		


TDS 13212
12x output to lights
12x MCB 10A/250V
12 channel manual control
TDS13212
0-10V/input 1..12
power inlet
Power Inlet Connections
1 x 230V
3 x 230V
3 x 400V + N
L1 N
L1 L2 L3
L1 L2 L3 N
earth
0-10V analoge inputs 1...12
Common - 0V
CH 1
CH 2
CH 3
CH 4
CH 5
CH 6
CH 7
CH 8
CH 9
CH 10
CH 11
CH 12
Not Used - 20V
Always use shielded cable !!!
(shield to be connected to earth
at the dimmer interface)

POWER DIMMER 1 x 500VA DIN-rail mounting TDS13221

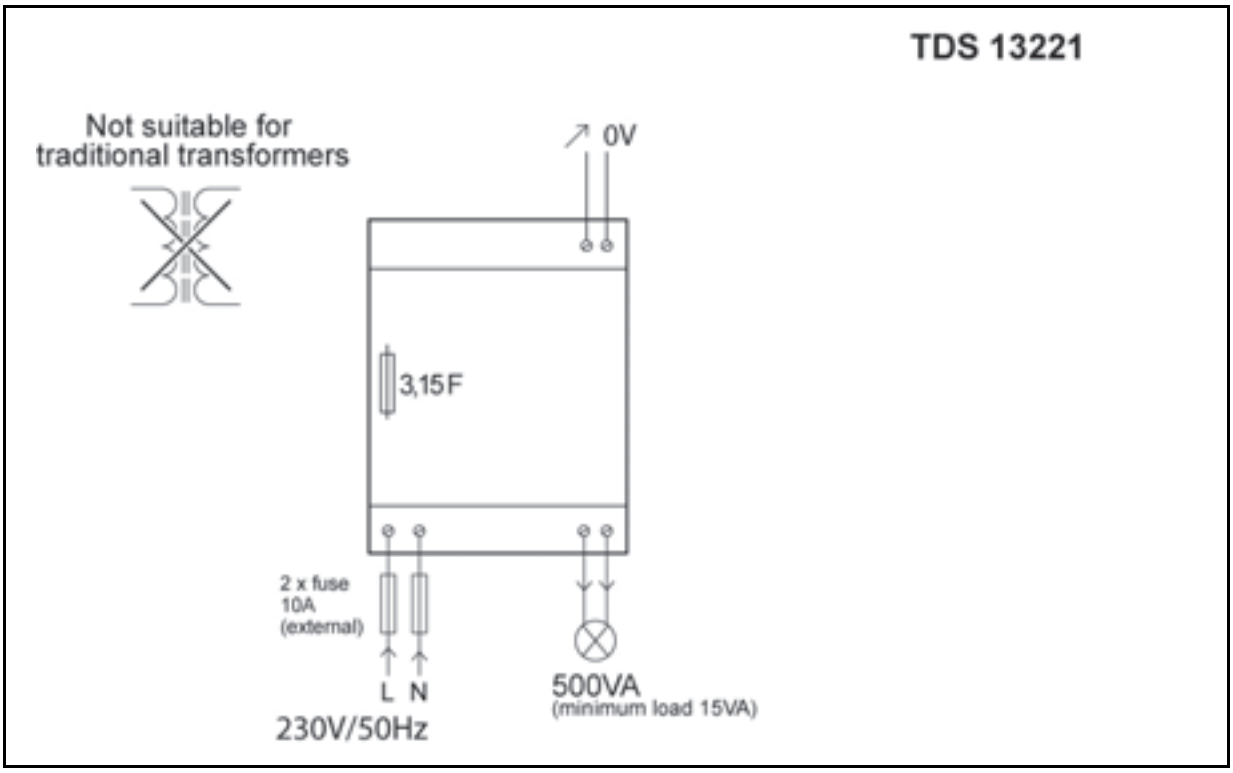
ECO-series 0-10V power light dimmer 1 x 500VA output to dim resistive and dimmable electronic transformers.
DIN-rail mounting. For use on 230V/50Hz.

Not suitable for traditional cupper coil transformers.
Please refer to the TELETASK 'PRO'- series (TDS13204 or TDS13212) for cupper coil transformer control.

See also other important remarks below.

Application:		Light dimmer with 0-10V control inputs. E.g.: use on MICROS+ / TDS13608 / TDS13610 (0-10V mode) analog outputs.
Characteristics:		0-10V inputs (max. 12V); dimmer output 500VA. Type: leading edge control. The connected transformer should be loaded with minimum 60% of its nominal VA load. The 0-10V inputs are isolated from the mains. Suited for dimming resistive power loads (lights), including electronic transformers which are dimmable with leading edge control. Build-in glass fuse 20mm – 3,15Amp F/250V. Add an external general protection MCB of 10Amp maximum. Minimum load (any case) 15VA. Not suitable for dimming wall sockets (no guaranteed minimum load in such case). Use without a load, can damage the unit. Mains connection 250V/50Hz.
Settings:		No
Installation:		Standard DIN-rail.
Connections:	Signal input 0-10V	Screw terminals 2.5mm² (14AWG)with common 0V connection.
	Power supply	Screw terminals 4mm² (12AWG); The 'N'- connection is internal daisy chained from mains input to the output channel (see schematic drawing).
Power Consumption:		Depends on the connected loads.
Dimensions:		53 W x 90 H x 58 D (mm)
Net | Gross weight:		0,180 |0,200 kg

Schematic Drawing:



POWER DIMMER 4 x 500VA DIN-rail mounting TDS13224

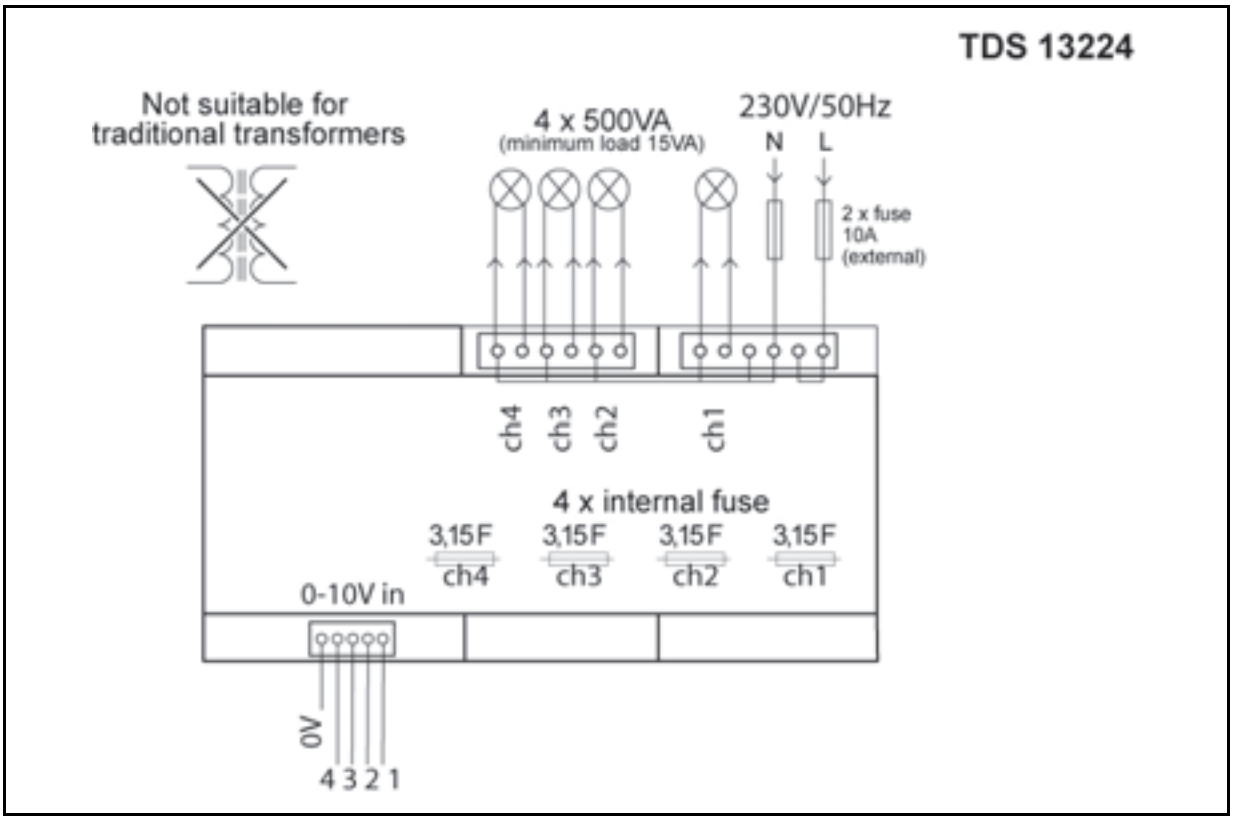
ECO-series 0-10V power light dimmer 4 x 500VA output to dim resistive and dimmable electronic transformers.
DIN-rail mounting. For use on 230V/50Hz.

Not suitable for traditional cupper coil transformers.
Please refer to the TELETASK 'PRO'- series (TDS13204 or TDS13212) for cupper coil transformer control.

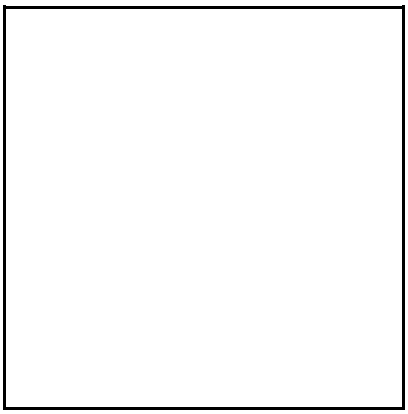
See also other important remarks below.

Application:		Light dimmer with 0-10V control inputs. E.g.: use on MICROS+ / TDS13608 / TDS13610 (0-10V mode) analog outputs.
Characteristics:		4 x 0-10V inputs (max. 12V); 4 dimmer outputs 500VA each. Type: leading edge control (switches off when AC current cross 0). The transformer should be loaded with minimum 60% of its nominal VA load. The 0-10V inputs are isolated from the mains. Suited for dimming resistive power loads (lights), including electronic transformers which are dimmable with leading edge control. Build-in 4 x glass fuse 20mm – 3,15Amp F/250V. Add an external general protection MCB of 10Amp maximum. Minimum load (any case) 15VA. Not suitable for dimming wall sockets (no guaranteed minimum load in such case). Use without a load, can damage the unit. Mains connection 250V/50Hz
Settings:		No
Installation:		Standard DIN-rail.
Connections:	Signal input 0-10V	Screw terminals 2.5mm² (14AWG)with common 0V connection.
	Power supply	Screw terminals 4mm² (12AWG); The 'N'- connection is internal daisy chained from mains input to the 4 channels (see schematic drawing).
Power Consumption:		Depends on the connected loads.
Dimensions:		159 W x 90 H x 58 D (mm)
Net | Gross weight:		0,520 |0,615 kg

Schematic Drawing:



POWER DIMMER 4 x 1100VA Wall mounting TDS13226



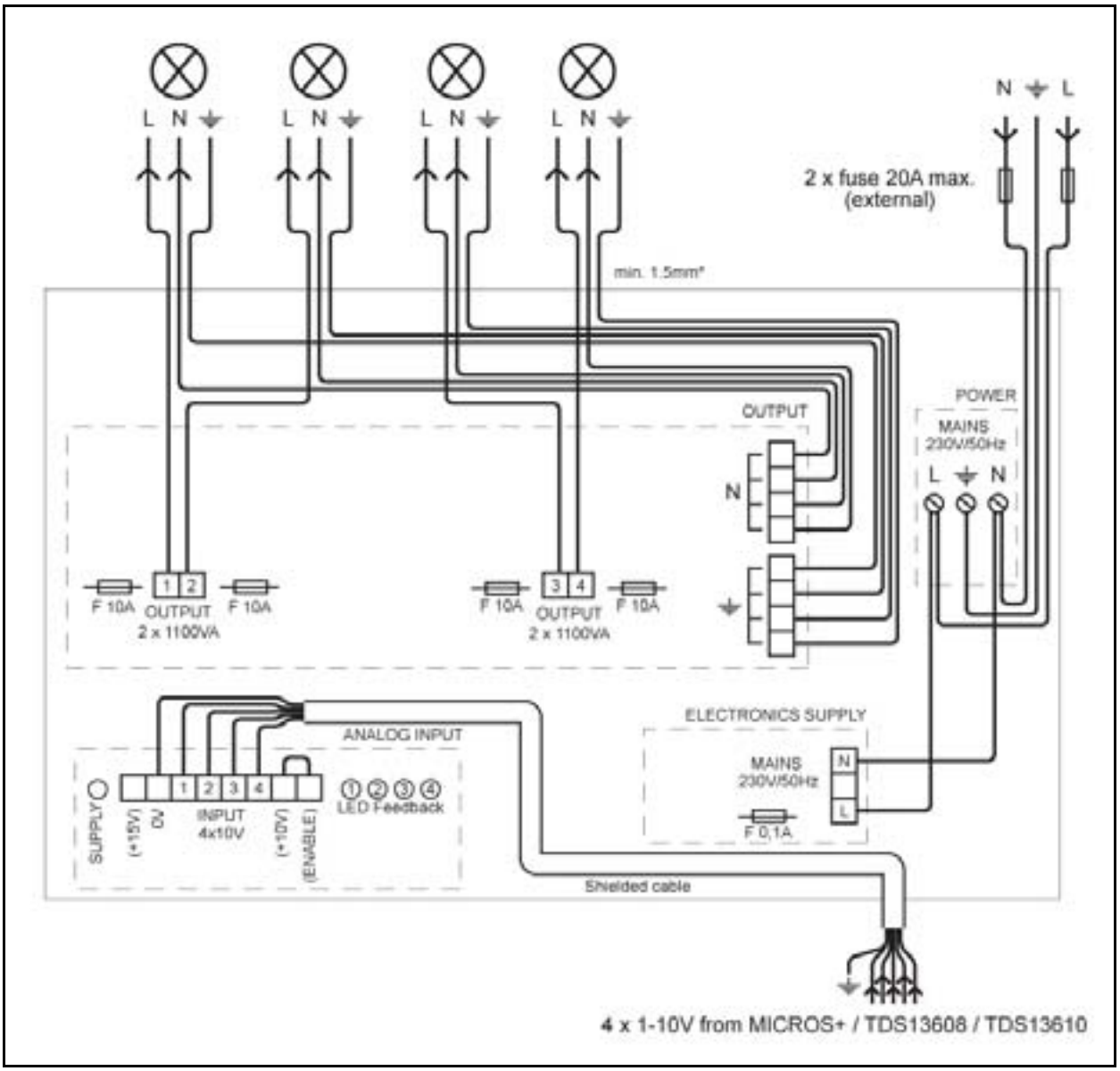
4 channels, 0-10V input power dimmer 4 x 1100VA output to dim resistive and inductive loads and dimmable electronic transformers.
Wall mounting. For use with 230V/50Hz supply.

For higher loads, please refer to the TELETASK 'PRO'- series (TDS13204 of TDS13212).

Application:		Dimmer with 0-10V control inputs. E.g.: Analog outputs: MICROS+ / TDS13608 / TDS13610 (0-10V mode).
Characteristics:	General	4 x 0-10V inputs; 4 dimmer outputs 1100VA each. Type: leading edge control. The 0-10V inputs are isolated from the mains. Suited for dimming resistive and inductive power loads (lights), including electronic transformers which are dimmable with leading edge control. Build-in 4 x ceramic fuse 20mm – 10Amp F/250V. Add an external general protection MCB of 20Amp maximum. Minimum load (any case) 15VA. Not suitable for dimming wall sockets (no guaranteed minimum load in such case). Use without a load, can damage the unit. Input impedance (0-10V): 48kΩ Mains connection 250V/50Hz
Settings:		No
Installation:		Wall mounting
Connections:	Signal input 0-10V	Screw terminals 2.5mm² (14AWG) with common 0V connection.
	Power supply	MAINS: Screw terminals 16mm² (6AWG); The 'N'- connection is internal daisy chained from mains input to the 4 channels (see schematic drawing). ELECTRONICS SUPPLY: Screw terminals 2.5mm² (14AWG);
	Output	Screw terminals 2.5mm² (14AWG)
	Jumper (wire)	The jumper (wire) between +10V and Enable

	must be connected.
Power Consumption:	Depends on the connected loads.
Dimensions:	305W x 180H x 45D (mm)
Weight:	2,100kg
IP protection rate:	IP30

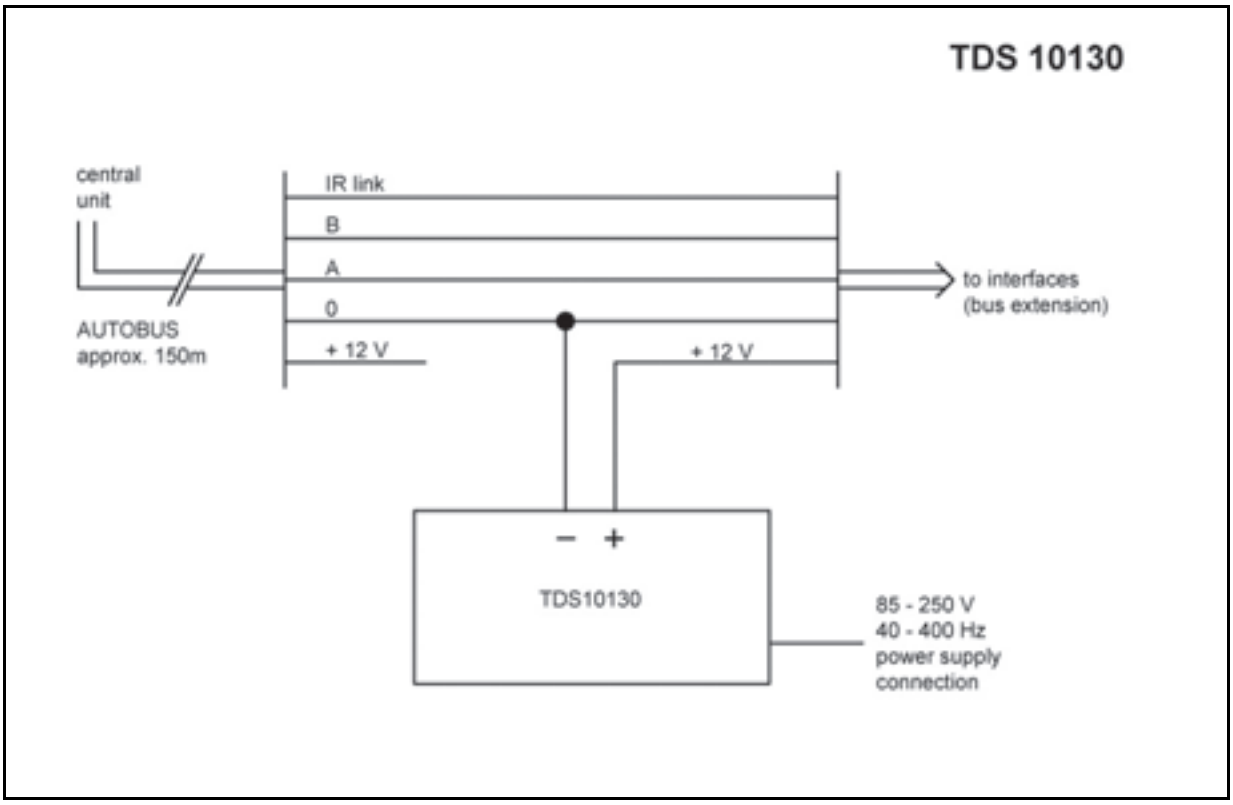
Schematic Drawings:



AUTOBUS power supply TDS10130

Rail mountable and adjustable 12V DC-40VA power supply. This unit can be used to power the TDS10200 NANOS Central Unit, the TDS13610, TDS12280 and as extra power supply for the AUTOBUS.

Application:		Used as power supply for MICROS+ or NANOS central unit as (additional) power supply on AUTOBUS (SERVUS and other cases).
Characteristics:	Input	100-230VAC
	Output	12VDC/3,5A (adjustable to 13V for use in combination with TDS13414 Booster Unit)
	Power supply	Mains connections: 100- tot 230VAC
Settings:		None
Installation:		Mounting on DIN rail
Connections:		100 – 230VAC on mains connectors 12VDC outputs: Connect the 0V with the 0V of the complete AUTOBUS; connect the 12 V with the extension side of the AUTOBUS.
Power Consumption		Not applicable
Dimensions:		75W x 65H x 90D (mm) Circa 4 units
Gross Weight:		0,360 kg
Schematic Drawing:		


TDS 10130
central unit
IR link
B
A
0
+ 12 V
AUTOBUS approx. 150m
to interfaces (bus extension)
+ 12 V
TDS10130
85 - 250 V
40 - 400 Hz
power supply connection

Mini Remote Control TDS12501

The TDS12501 is a small and user friendly infra-red remote control for home automation control. The controlled functions adapt automatically according the touch panel or interface to which the infrared remote control is communicating. (button 1 controls function 1 of the TELETASK interface which receives the IR code)

Application:		To be used where remote control of the functions on a touch panel or other TELETASK interface with infrared receiver is desired.
Characteristics:		The remote control is equipped with 8 buttons for the control of 8 functions; the controlled function depends on the TELETASK interface that receives the IR command. Shift button ‘arrow’: pressed in combination with the 8 numeric buttons it controls 8 extra functions (right group of 8 buttons on LATUS) Shift button ‘house’: pressed in combination with the 8 numeric buttons it controls the 8 “MASTER” functions.
	Battery	CR2025 (3V Lithium) – supplied with the unit. Compatible with CR2032
Settings:		IR functions via PROSOFT
Installation:		None
Connections:		None
Power Consumption:		Estimated battery lifetime: 1 year (no warranty on the battery)
Dimensions:		33 W x 86 H x 7 D (mm)
Net | Gross Weight:		0,015 kg | 0,050 kg

Remote Control TDS12502

The TDS12502 is an all-in-one, user friendly infra-red remote control for home automation control. User friendly interface, because the remote control automatically adapts its functions to the place where you are.

Application example: When the central lights for every room are programmed on button 1 of the according input interfaces, clicking button 1 on your remote control will change the central light. If you go to another room with a TELETASK wall panel, and you click the same button number 1, the central light in the new room will be changed instead of the former one.

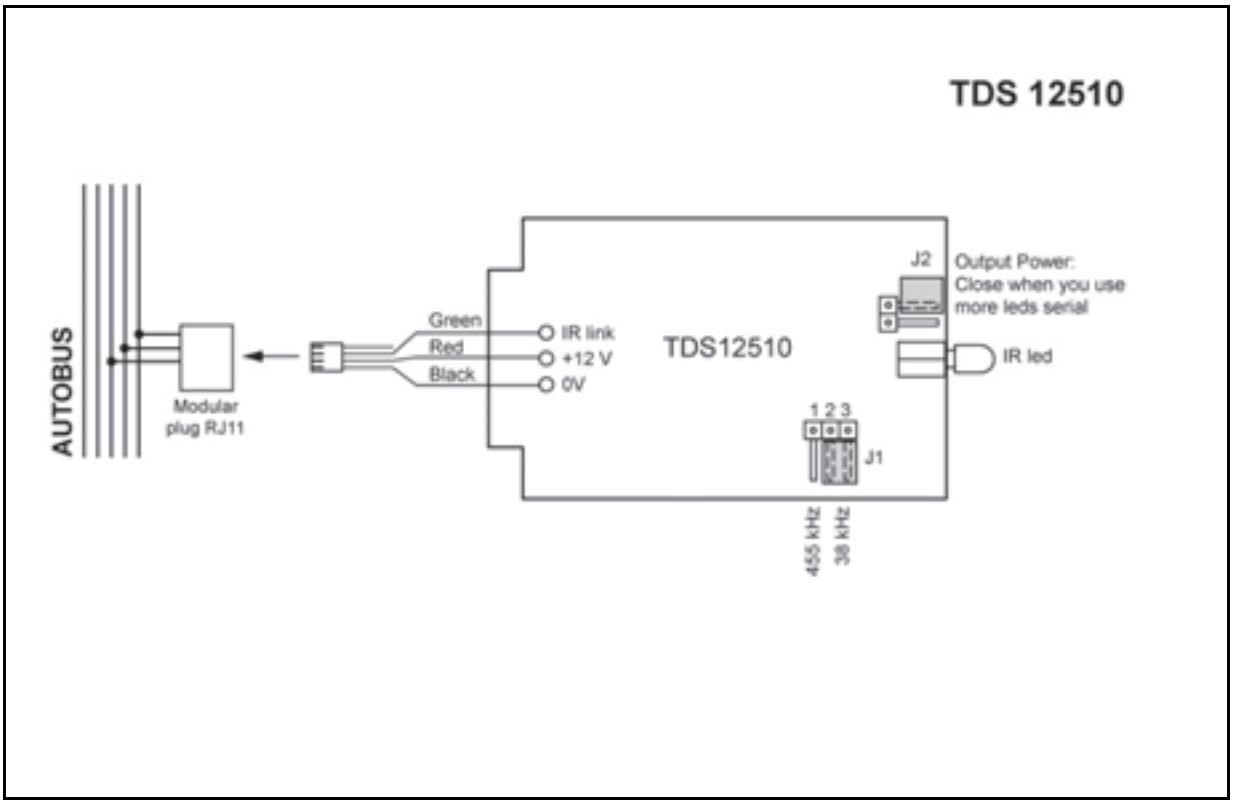
Application:		To be used where remote control of the functions on a touch panel or other TELETASK interface with infrared receiver is desired. There are more functions to be controllable on the remote control than on a touch panel or digital input interface. To be used in combination with an IR receiver (in touch panel or external with TDS12125 or TDS12127)
Characteristics:		The remote control is equipped with 8 buttons for the control of 8 functions. The controlled function depends on the TELETASK interface that receives the IR command. 8 numeric buttons for the control of direct functions. Shift button: '⮥': in combination with the 8 numeric buttons, the extra functions are controlled (button 9-16 on a LATUS). Shift button 'house': in combination with the 8 numeric buttons, the 'MASTER' functions are controlled. Audio – video buttons.
	Battery	CR2025 (3V Lithium) – supplied with the unit. Compatible with CR2032
Settings:		IR functions via PROSOFT Ⓒ+↑ B&O (455kHz) Ⓒ+↓ Standaard (36kHz)
Installation:		None
Connections:		None
Power Consumption:		Estimated battery lifetime: 1 year (no warranty on the battery)
Dimensions:		46 W x 175 H x 8 D (mm)
Net | Gross Weight:		0,040 kg | 0,150 kg

Infra red transmitter TDS12510

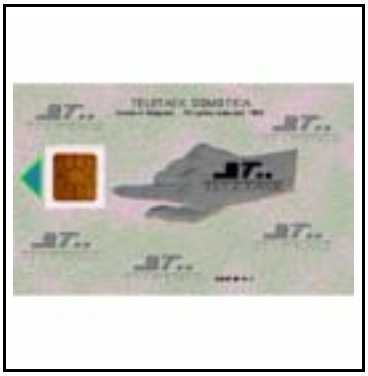
This module re transmits all the infrared signals which were received on the infrared receiver on the connected AUTOBUS.

If necessary the transmitter led can be fit removed from the housing to be connected on a cable.

Application:	This transmitter is used to transmit the IR-signals which are on the AUTOBUS, coming from the IR-receivers in the connected touch panels and IR-receivers connected to the digital input interfaces with IR-input. Typical applications are the control of audio/video equipment in the living room, out of the kitchen, bath room, etc… when extra loudspeaker sets are installed in these rooms.
Characteristics:	Re-transmits the signals on the green IR-link wire of the AUTOBUS.
Settings:	Normal or reduced transmission power / 38KHz or 36KHz modulation frequency.
Installation:	Mainly to be installed at the back of the audio rack, with the IR-transmitter led to be reflecting to the IR-receiver of the audio equipment The transmitter may absolutely not transmit his signals to receivers of the TELETASK systems. If so a closed loop is generated, resulting in a disfunction. Maximum 10 IR-receivers may be connected per IR-link transmitter.
Connections:	by enclosed AUTOBUS connector set
Power Consumption:	Max. 44 mA
Dimensions:	50 W x 90 H x 15 D (mm)
Gross Weight:	0,106 kg
Schematic Drawing:	


TDS 12510
AUTOBUS
Modular
plug RJ11
Green
Red
Black
IR link
+12 V
0V
TDS12510
J2
Output Power:
Close when you use
more leds serial
IR led
1 2 3
J1
455 kHz
38 kHz

Chip Card TDS12201



The TELETASK chip card is a contact access card to be used in combination with the TELETASK chip card reader TDS12140. The chip card is equipped with a protected chip, containing the necessary identification electronics for a secured access control. The card can be configured to combine the access with any other domotics function (lighting, heating, cooling, audio, etc…).

Application:		Chip card to be slided in to provide opening of a TDS12140 chip card reader.12140).
Characteristics:		ISO protected chip card.
Settings:	Programming	The chip card can be configured in two ways: • by CARDSOFT (PC): refer to the CARDSOFT user manual for more information (starting with PROSOFT V2.74). • on the keyboard of the central unit: - go to ‘user mode’ - go to ‘card program mode’ - choose ‘program’ to program one or more cards. - choose if the card gat to get access on one or on all available readers of the house. - choose the desired domotics function ‘1’ to ‘8’ (defined in PROSOFT). - put the card in the desired card reader unit.
	Erasing	Erasing the card from the system memory can be done in two ways: • by CARDSOFT; refer to the CARDSOFT user manual for more information (starting with PROSOFT V2.74). • on the keyboard of the central unit: - go to ‘user mode’ - go to ‘card program mode’ - choose ‘erase’ to clear the card from the system memory. - choose the option to erase one card. - put the card in the desired chip card reader unit.
Installation:		no installation
Connections:		Put the chip card in to the opening of the chip card reader, with the printed side up.
Power Consumption:		Not applicable
Dimensions:		85 W x 54 H x 1mm thick (ISO standard dimensions).
Gross weight:		Not applicable

Proximity card TDS12202

The TELETASK proximity card is a contactless access card to be used in combination with the TELETASK proximity reader TDS12142. The proximity card is equipped with internal electronics and antenna for wireless communication, to get access control. The card can be configured to combine the access with any other domotics function (lighting, heating, cooling, audio, etc…).

Application:		Proximity card to be held in front of a TDS12142 proximity reader unit.
Characteristics:		ISO wireless proximity card.
Settings:	Programming	The proximity card can be configured in two ways: • by CARDSOFT (PC): refer to the CARDSOFT user manual for more information (starting with PROSOFT V2.74). • on the keyboard of the central unit: - go to ‘user mode’ - go to ‘card program mode’ - choose ‘program’ to program one or more cards. - choose if the card gat to get access on one or on all available readers of the house. - choose the desired domotics function ‘1’ to ‘8’ (defined in PROSOFT). - hold the proximity card in front of the desired reader unit.
	Erasing	Erasing the card from the system memory can be done in two ways: • by CARDSOFT; refer to the CARDSOFT user manual for more information (starting with PROSOFT V2.74). • on the keyboard of the central unit: - go to ‘user mode’ - go to ‘card program mode’ - choose ‘erase’ to clear the card from the system memory. - choose the option to erase one card. - hold the card in front of the proximity reader unit.
Installation:		No installation
Connections:		No connections (wireless)
Power Consumption:		Not applicable
Dimensions:		85 W x 54 H x 1mm thick (ISO standard dimensions).
Net | Gross weight:		Not applicable

TAG key holder unit TDS12203

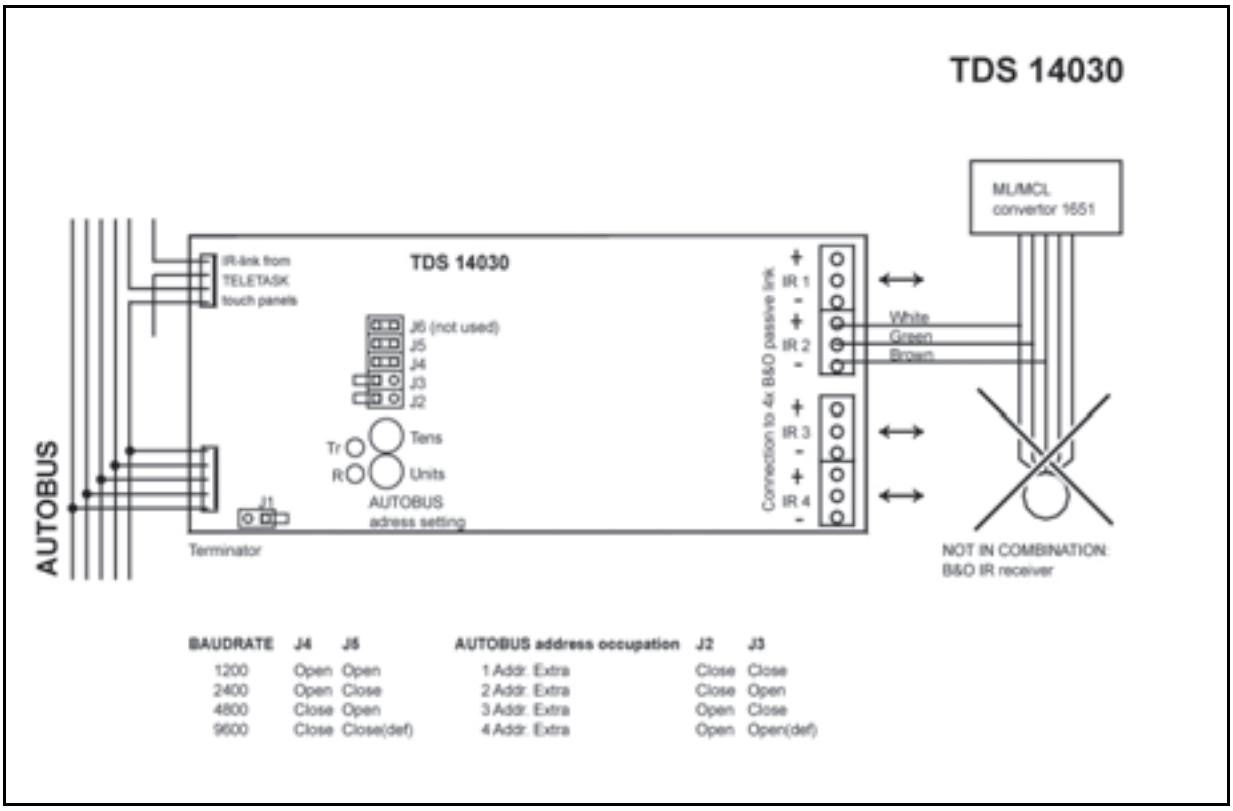
The TELETASK TAG key holder unit is a contactless access unit to be used in combination with the TELETASK proximity reader TDS12142. The TAG key holder unit is equipped with internal electronics and antenna for wireless communication, to get access control. The unit can be configured to combine the access with any other domotics function (lighting, heating, cooling, audio, etc…).

Application:		TAG key holder unit to be held in front of a TDS12142 proximity reader unit.
Characteristics:		ISO wireless proximity TAG.
Settings:	Programming:	The proximity TAG can be configured in two ways: • by CARDSOFT (PC): refer to the CARDSOFT user manual for more information (starting with PROSOFT V2.74). • on the keyboard of the central unit: - go to ‘user mode’ - go to ‘card program mode’ - choose ‘program’ to program one or more cards. - choose if the TAG gat to get access on one or on all available readers of the house. - choose the desired domotics function ‘1’ to ‘8’ (defined in PROSOFT). - hold the proximity TAG in front of the desired reader unit.
	Erasing:	Erasing the TAG from the system memory can be done in two ways: • by CARDSOFT; refer to the CARDSOFT user manual for more information (starting with PROSOFT V2.74). • on the keyboard of the central unit: - go to ‘user mode’ - go to ‘card program mode’ - choose ‘erase’ to clear the TAG from the system memory. - choose the option to erase one card. - hold the TAG unit in front of the proximity reader unit.
Installation:		No installation
Connections:		No connections (wireless)
Power Consumption:		Not applicable
Dimensions:		39 W x 34 H x 6.5mm Thick + stainless steel key ring.
Net | Gross weight:		Not applicable

Beolink interface. TDS14030

Interface to the B&O BEOLINK system (passive link systems – power amplifiers).
Important remark: only units with a passive link are controllable.

Application:		To control a multi room B&O system by standard buttons, touch panels, Teletask remote control and all connected systems. At the other hand it is possible to activate eight functions via the 'light' functions on the B&O remote control. Up to four zones can be controlled by one B&O interface. The basic audio functions of each (passive link) zone are controllable by the TELETASK systems.
Characteristics:		Connecting up to 4 'passive link' of B&O. Connecting up to 4 IR-LINKS from TELETASK touch panels. Control 8 TELETASK functions through the light key of the B&O remote control. Control the audio functions of the passive link of the concerning room through the TELETASK remote control.
Settings:	Functions:	With PROSOFT Suite
	AUTOBUS address:	through rotary switches Tens + Units
Installation:		to be set up in the neighbourhood of the passive link amplifiers.
Connections:	AUTOBUS:	by enclosed AUTOBUS connector.
	IR-LINK inputs:	By 4-pole miniature connector.
	Passive IR-LINK B&O:	By means of screw terminals (3 wires).
Power Consumption:		Max. 70 mA
Dimensions:		216 W x 87 H x 55 D (mm) About 12 modules
Net | Gross weight:		0,560 kg
Schematic Drawing:		



BAUDRATE	J4	J5
1200	Open	Open
2400	Open	Close
4800	Close	Open
9600	Close	Close(def)

AUTOBUS address occupation	J2	J3
1 Addr. Extra	Close	Close
2 Addr. Extra	Close	Open
3 Addr. Extra	Open	Close
4 Addr. Extra	Open	Open(def)

BOSE Lifestyle X8 Audio Interface TDS14036

The TELETASK BOSE Lifestyle X8 audio interface is an AUTOBUS interface for the integration of the BOSE Lifestyle 18, 28, 38 and 48 in the TELETASK domotic system. This integration makes the Bose Lifestyle audio system controllable through the TELETASK domotic system.

The interface support maximum 15 audio zones (1 main room + 14 link rooms) and 8 audio sources, integrated in the BOSE Lifestyle X8 or connected externally to the BOSE Lifestyle X8.

Application:		Interface for the control of the BOSE Lifestyle X8 multiroom-multisource audio system through the TELETASK input interfaces and the TELETASK remote control.
Characteristics:		Interface between AUTOBUS en BOSE Lifestyle X8 using a serial connection. Control of max. 15 audio zones (1 main room + 14 link rooms). Control of max. 8audio sources. Control of the BOSE Lifestyle X8 using the TELETASK domotic system. Plastic Housing with separated mains adaptor.
Settings:	AUTOBUS address	Through rotary switches Tens + Units Default factory setting on address 24
	Configuration	With PROSOFT from V2.75/11
	Audio Codes	Translation between the BOSE and the TELETASK audio items:

BOSE	TELETASK
TUNER	FM
DVD	CD
STORED	TAPE
AUX	AUX
LOCAL (or VCR for main)	VIDEO
TV	SRC 6
SAT	SRC 7
VCR	SRC 8

Actions taken by the Bose system when you control the audio system from the TELETASK user interfaces:

1st push: Select the source + PLAY command

2nd push: Channel UP (i.e. next preset, next track…)

Long push or Extra: Channel DOWN (i.e. previous preset, previous track…)

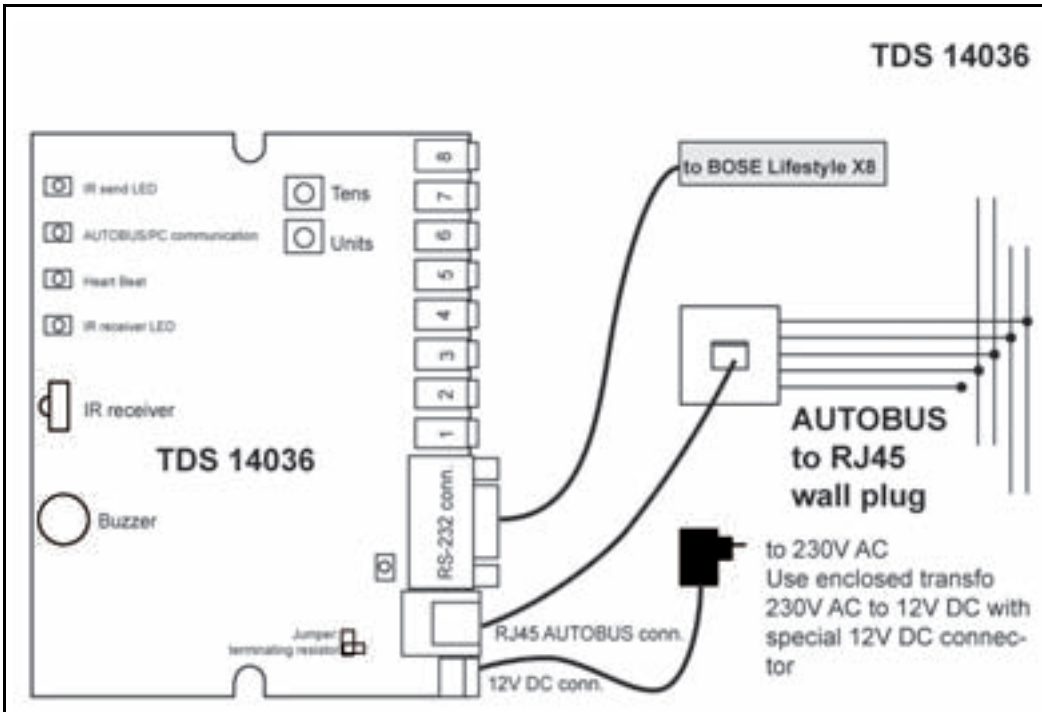
Mute: The mute command is send only once. It must be switched off using the Volume Up command.

On/Off: Switch between Tuner/Off

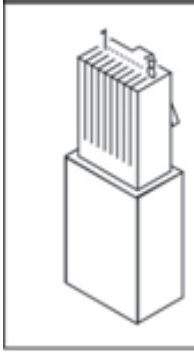
Off extra: All audio zones are switched off.

Installation:		Near the BOSE audio installation
Connections:	AUTOBUS	Through standard RJ45 patch cable to a standard RJ45 wall box. (Be aware for the connection of the AUTOBUS at the RJ45 wall box)
	Power Supply	With enclosed 12V DC connector
	BOSE Amplifier	With enclosed cable
Power Consumption:		Max. 25 mA
Dimensions:		140 W x 35 H x 110 D (mm)
Gross weight:		0,230 kg

Schematic Drawings:



AUTOBUS to RJ45 connection table



RJ45 pin	RJ45 Cable Color	AUTOBUS	
Pin 1	White/Orange	-	-
Pin 2	Orange	green wire	IR Link
Pin 3	White/Green	white wire	B
Pin 4 + 7	Blue + White/Braun	red wire	12V
Pin 5 + 8	White/Bleu + Braun	black wire	0V
Pin 6	Green	blue wire	A

Learnable IR generator for audio integration TDS14041

The learnable Infrared generator is an AUTOBUS interface used to set up a multiroom-multisource audio system to be integrated with a TELETASK domotics system. The integration with audio equipment is based on the IR flashers of the interface which controls any IR controllable audio source and audio power amplifier.

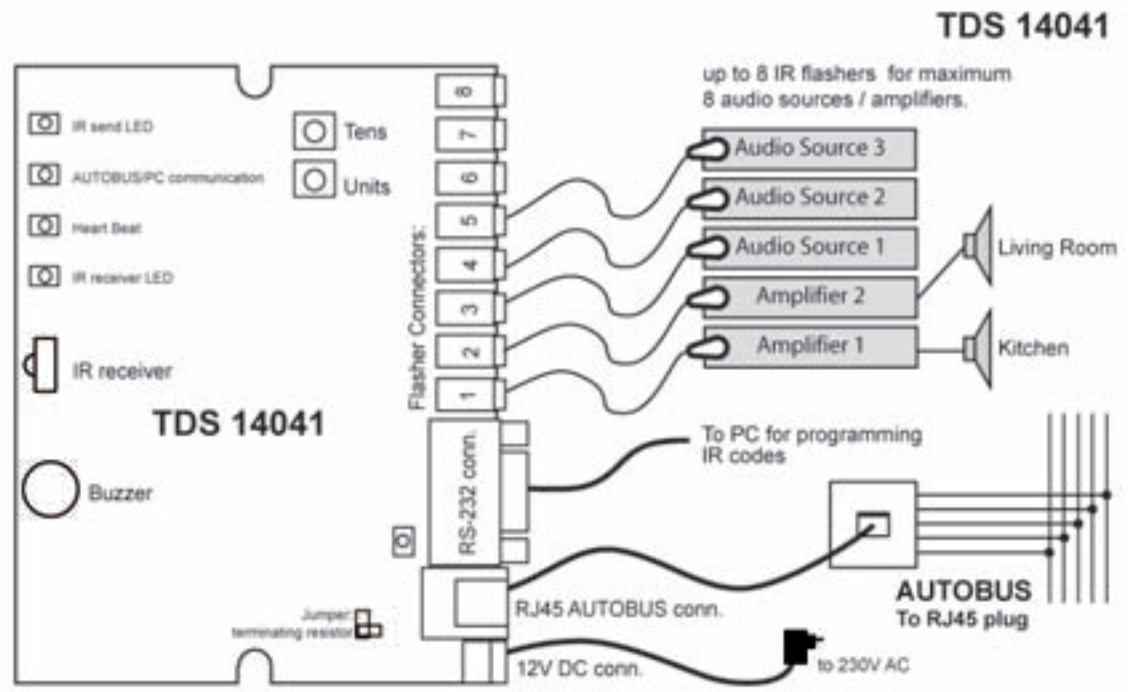
The integration of any standard audio system is very simple. From a single channel standard audio system, up to 8- fold multiroom-multisource audio systems can be integrated.

Thanks to this integration, your audio system is controllable through any TELETASK input (standard push button, touch panels, touch screens…), the TELETASK remote control or via the Ethernet Home server.

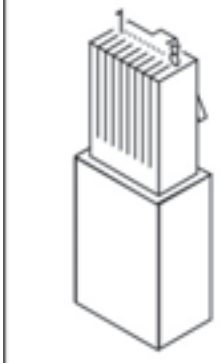
Application:		Interface used to set up and integrate a multiroom-multisource audio system with a TELETASK system.
Characteristics:		Interface used between the AUTOBUS and IR flashers to the controlled audio equipment (any standard IR controlled audio source or amplifier). Control of max. 8 audio sources and/or 8 power amplifiers to 8 audio zones, where one interface can have maximum 8 IR flashers, where the total number of sources and amplifiers is maximum eight. This can be for example 4 audio sources (CD, tuner, MP3 player…) and 4 power amplifiers. Or for example 8 audio power amplifiers with 8 built-in tuners also need only 8 flashers. Plastic housing with external power adapter (included with the unit).
Settings:	AUTOBUS address	With rotary switches Tens + Units Factory set AUTOBUS address: 24
	Configuration	With PROSOFT version V2.74 and higher.
	IR-codes	With PROSOFT Suite (IR-SOFT) version V2.74 and higher.
Installation:		In the immediate neighbourhood of the audio system. IR flashers are sticked in front of the IR receiver of the audio system.
Connections:	AUTOBUS	Through RJ45 cable to standard RJ45 wall connector (wall connector is not included)
	Power Supply	Mains adapter included
	Audio system	No connections; through max. 8 IR flashers (1 IR flasher included in the package)
	IR-programming	RS-232 (trained with IR-SOFT while the interface is connected to the PC)
Power Consumption:		Max. 25 mA
Dimensions:		140 W x 35 H x 110 D (mm)

Net | Gross weight: 0,800 kg

Schematic Drawings:



AUTOBUS to RJ45 connection table



RJ45 pin	RJ45 Cable Color	AUTOBUS	
Pin 1	White/Orange	-	-
Pin 2	Orange	green wire	IR Link
Pin 3	White/Green	white wire	B
Pin 4 + 7	Blue + White/Braun	red wire	12V
Pin 5 + 8	White/Bleu + Braun	black wire	0V
Pin 6	Green	blue wire	A

Universal RS232 (A/V and other) interface TDS14042

Residential multi-room/multi-source (MR) audio/video systems are often still provided with an RS232 control interface. Besides the existing wide range of audio/video integration solutions, TELETASK therefore introduces a configurable and learnable RS232 audio/video interface.

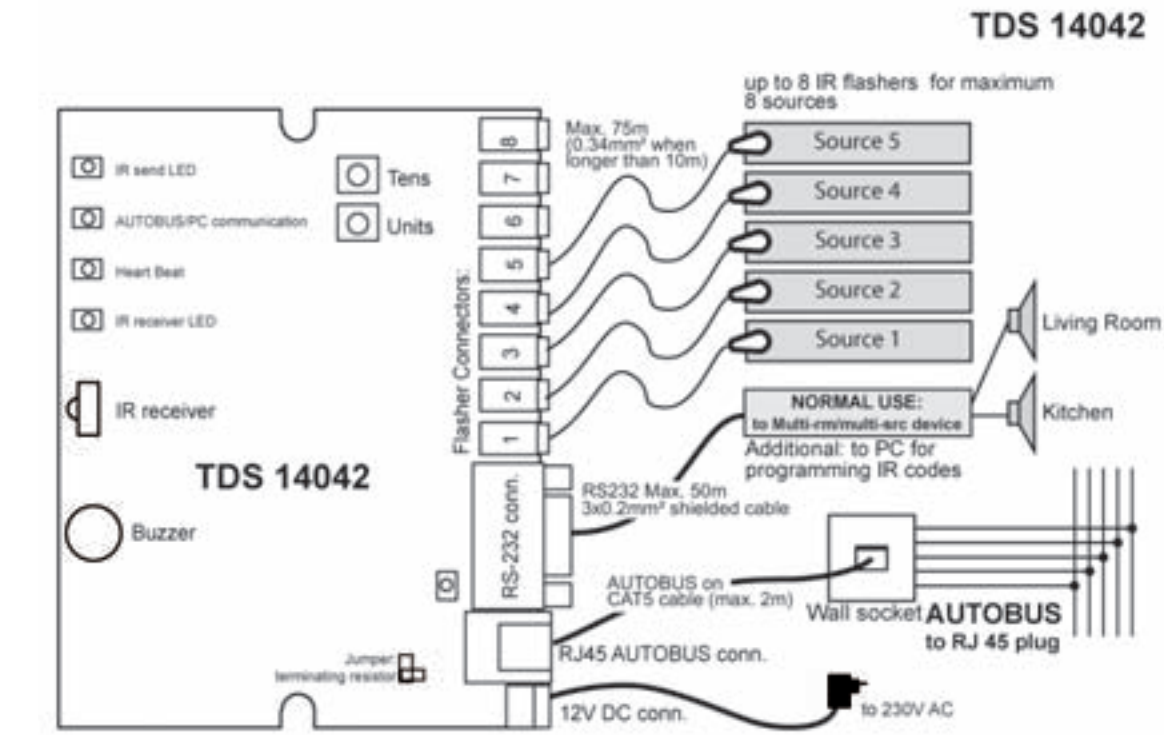
By using this interface an in deep Home Automation integration is realized. Audio/video control is possible from every TELETASK user interface (buttons, panels, touch screens, remote control, PC, mobile devices,…).

The interface has also 8 IR-flasher outputs to directly control (extra) audio/video sources.

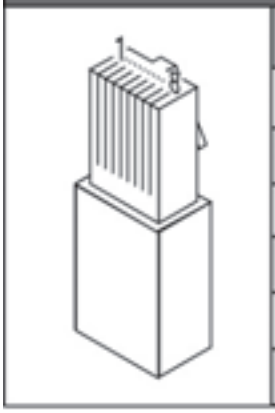
Application:		Interface used to integrate the TELETASK system with RS232 provided audio/video systems.
Characteristics:	AUTOBUS	The interface is connected to AUTOBUS at one side and at the other via RS232 with concerned audio/video system. There are also 8 IR-flasher outputs (mini-jack) for IR flashers order ref. TDS14043 (not included). 900 codes, 8 sources and 24 zones are supported.
Settings:	Configuration	Via PROSOFT Suite 3.2 or higher. IR-code learning via IRSOFT (included with PROSOFT Suite).
	AUTOBUS address	Via two rotary switches (ROT1 and ROT2). Factory preset at AUTOBUS address 24. Open the housing to change the address setting. Occupies only one address.
	Jumpers	Terminating resistor (inside). To be used when the interface is last interface on the AUTOBUS cable.
Installation:		In the immediate neighborhood of the connected audio system (RS232 cable limited to 50 meter). IR flashers (optional) are sticked in front of the IR receiver of the audio system (IR cable limited to 75 meter)
Connections:	AUTOBUS	Through RJ45 cable to standard RJ45 wall connector (wall connector is not included)
	Power Supply	Schuko Mains adapter included (230V/50Hz). Can be exchanged by other adapter with same output voltage and current (12V/200mA).
	RS232	Via 9-pins SUB-D connector (cable is male connector). Used or learning IR-codes and for operation with the RS232 audio/video device.
Power Consumption:		Max. 25 mA
Dimensions:		140 W x 35 H x 110 D (mm)

Content:	TDS14042, NULL modem cable MM, BOSE data cable, RS232 SUB-D MF
Net | Gross Weight:	0.8 kg |0,9 kg

Schematic Drawings:



AUTOBUS to RJ45 connection table

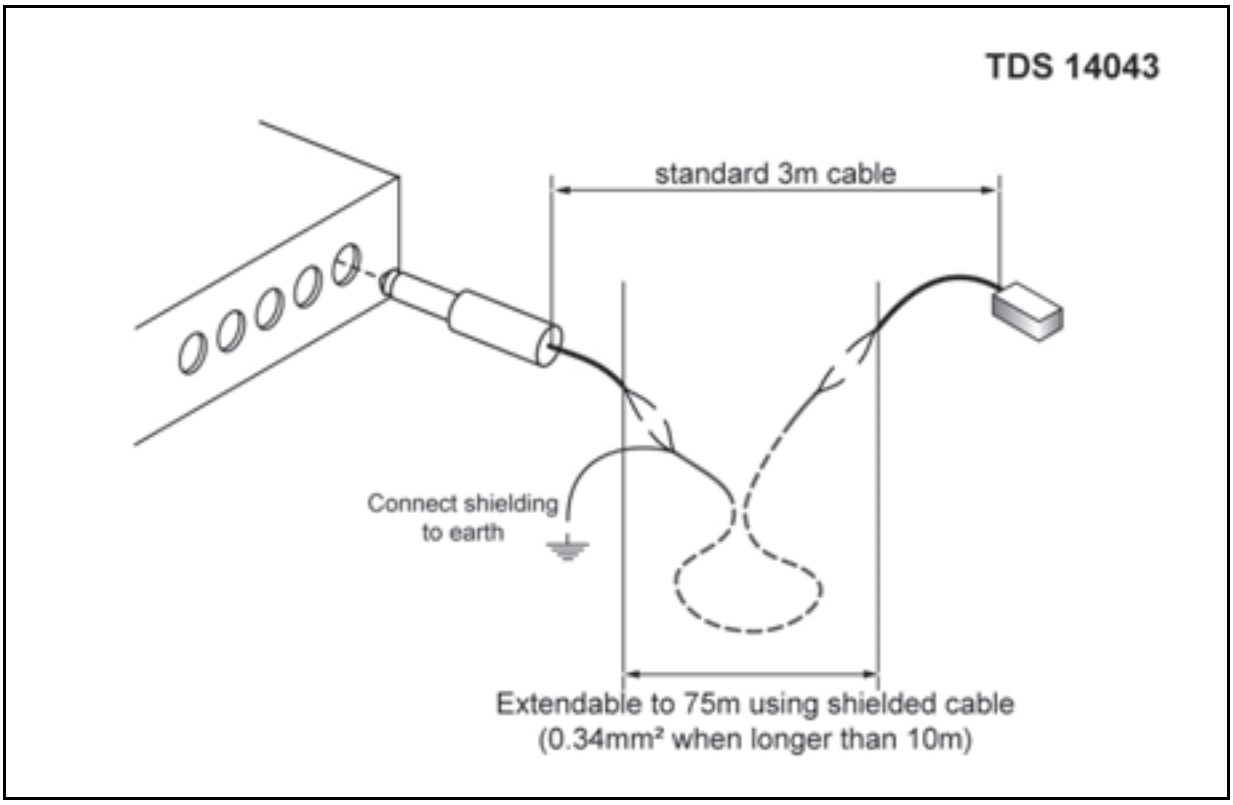


RJ45 pin	RJ45 Cable Color	AUTOBUS	
Pin 1	White/Orange	-	-
Pin 2	Orange	green wire	IR Link
Pin 3	White/Green	white wire	B
Pin 4 + 7	Blue + White/Braun	red wire	12V
Pin 5 + 8	White/Bleu + Braun	black wire	0V
Pin 6	Green	blue wire	A

IR-flasher TDS14043

Optional IR-Flasher to be used in combination with TDS14041/TDS14042 learnable IR audio interface.

Application:		The IR-Flasher is used to send the regenerated IR codes coming from the learnable IR audio interface (TDS14041/TDS14042) to the receiver of the controlled audio component.
Characteristics:		IR-flasher to send IR signals of 36-38 kHz and 450kHz.
Settings:		None
Installation:		The IR-flasher is sticked in front of the IR receiver of the controlled audio component by means of a pre mounted self adhesive tape. (The IR-flasher cable is extendable up to max. 75m using a shielded cable)
Connections:	TDS14041/TDS14042	through mini jack 3,5mm
Power Consumption:		Not applicable
Dimensions:	IR-flasher	14 W x 8 H x 6.5 D (mm)
	Cable	Standard cable length 3m, extendable up to max 75m using a shielded cable (0.34mm² when longer than 10m).
Gross weight:		0,050 kg
Schematic Drawing:		


TDS 14043
standard 3m cable
Connect shielding
to earth
Extendable to 75m using shielded cable
(0.34mm² when longer than 10m)

Audio splitter cable TDS90160

Optional available audio splitter cable to make easy connection between the several audio components integrated and controlled by the TELETASK learnable IR audio generator TDS14041.

Application:		The audio splitter cable is used to make the connection between the different audio components in combination with the TDS14041 learnable IR audio generator.
Characteristics:		1Male to 2Male RCA connector cable.
Settings:		None
Installation:		The audio splitter cable is connected between the different audio components used in the audio integration (audio source and audio amplifier)
Connections:	Audio components	RCA connectors
Power Consumption:		Not applicable
Dimensions:	cable	50 cm long
Gross weight:		0,200 kg

XANTECH audio interface TDS14045

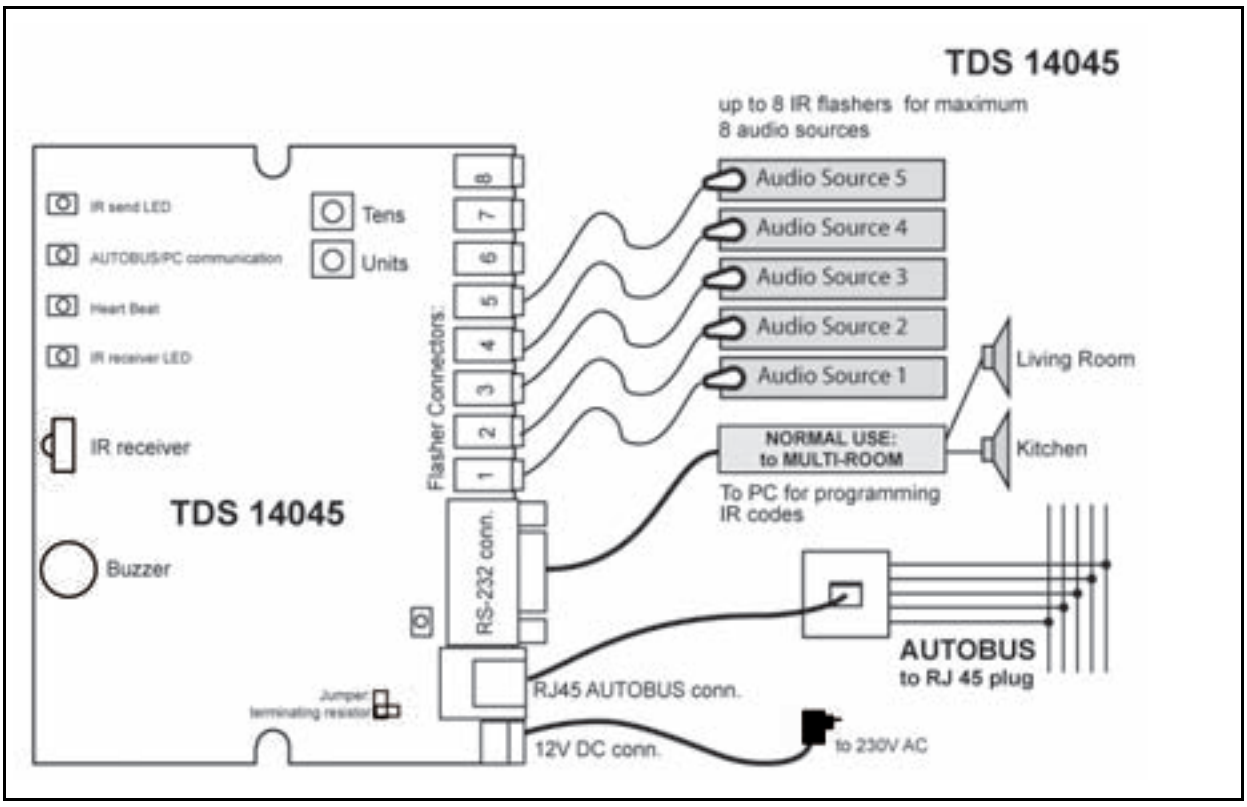
The TELETASK XANTECH audio interface is an AUTOBUS interface for the integration of the XANTECH ZPR68-10 or MRC88 audio system with the TELETASK domotics system. Thanks to this integration the XANTECH audio system is controllable with any TELETASK input (standard push button, touch panels, touch screens, remote control, TV-interface, Ethernet home server link…)

The interface supports up to 24 audio zones for the ZPR68-10 or up to 16 audio zones for the MRC88 and 8 audio sources which are connected to the Xantech units.

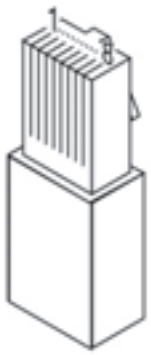
Application:		Interface to the XANTECH ZPR68-10 or MRC88 audio system with TELETASK.
Characteristics:		Interface between the AUTOBUS and the XANTECH ZPR68-10 or MRC88 serial connection. ZPR68-10: Control of up to 24 audio zones (6 audio zones using ZPR68-10 unit; extendable with 2 x 9 audio zones using 2 x XP9 unit). MRC88: Control of up to 16 audio zones (8 audio zones using MRC88 unit, extendable with 1x MRC88) Control of max. 8 audio sources. Plastic Housing with external power supply.
Settings:	AUTOBUS address	Through rotary switches Tens + Units Factory set AUTOBUS address: 24. Each EPX unit needs an extra AUTOBUS address. Maximal address occupation: 3 consecutive addresses.
	Configuration	With PROSOFT version V2.75 or higher
	IR-codes	Through IR-SOFT V1.13 or higher.
	Audio Codes	**XANTECH** **TELETASK** Source 1 FM Source 2 CD Source 3 TAPE Source 4 AUX Source 5 VIDEO Source 6 SRC 6 Source 7 SRC 7 Source 8 SRC 8
Installation:		In the immediate neighbourhood of the XANTECH audio system. IR flashers sticked in front of the IR receivers of the different audio sources.
Connections:	AUTOBUS:	Through RJ45 cable to a standard RJ45 wall

		connector (the wall connector is not included).
	Power Supply	External mains adapter included.
	Multi-room amplifier	Via an included null modem cable.
	Audio sources	Via up to 8 IR flashers (optional); no connections
	IR-programming	RS-232 (trained with IR-SOFT while the interface is connected to the PC)
Power Consumption:		Max. 25 mA
Dimensions:		140 W x 35 H x 110 D (mm)
Gross weight:		0,920 kg

Schematic Drawings:



AUTOBUS to RJ45 connection table



RJ45 pin	RJ45 Cable Color	AUTOBUS	
Pin 1	White/Orange	-	-
Pin 2	Orange	green wire	IR Link
Pin 3	White/Green	white wire	B
Pin 4 + 7	Blue + White/Braun	red wire	12V
Pin 5 + 8	White/Bleu + Braun	black wire	0V
Pin 6	Green	blue wire	A

Multiroom-Multisource Audio Amplifier 4 zones (MMA4) TDS14104

This is a high-quality audio distribution system allowing you to distribute up to 5 different sound sources to 4 audio zones.

The integration between TDS and MMA4 is obtained by using LAN connection (A/V software license) or RS232 (TDS14042) to the DoIP system.

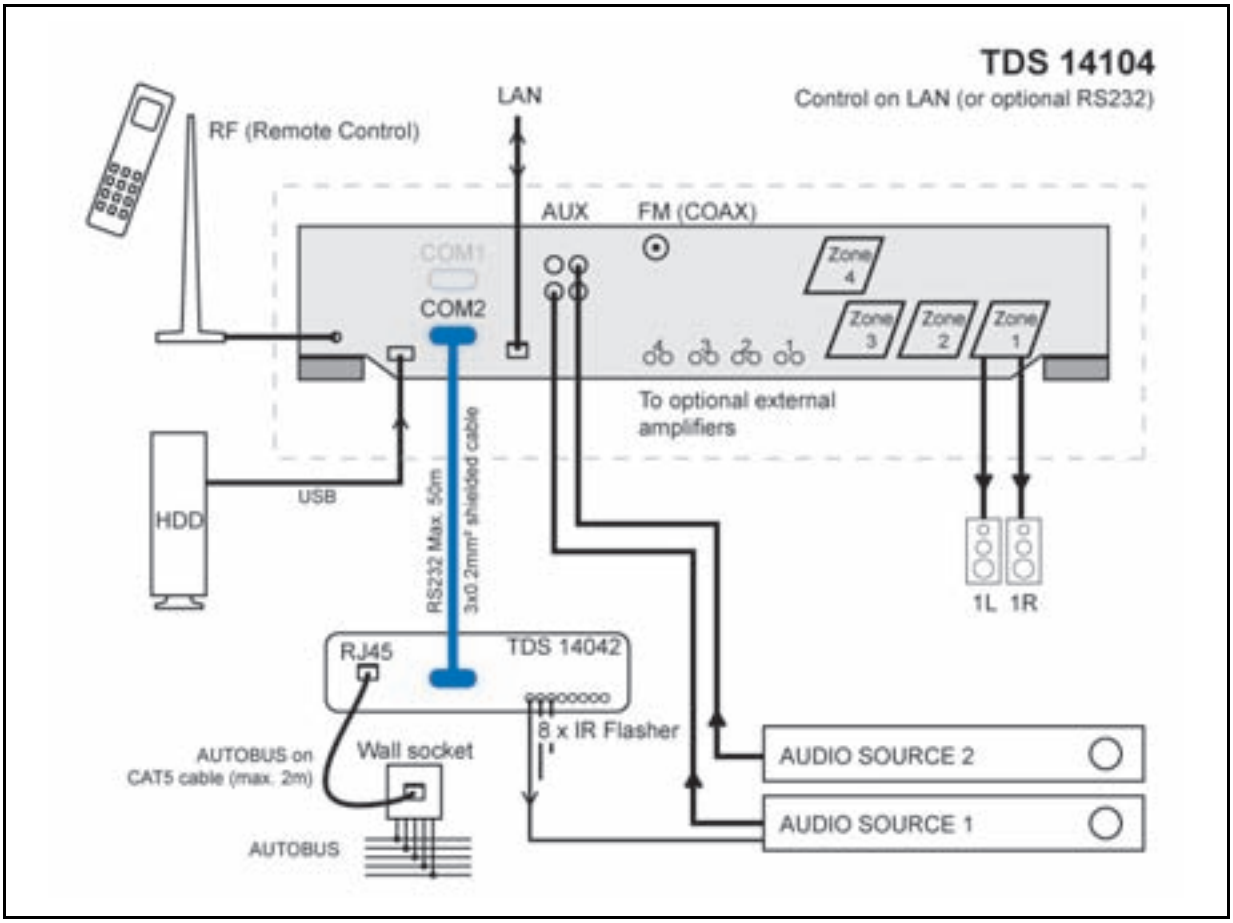
Each zone is equipped with a 2 x 20 watt RMS Class D amplifier. This unit has two build-in FM tuners, a digital audio stream and the possibility to connect two external audio sources.

The unit comes standard with a remote control, which can show info from a mp3 track or the tuner RDS information + charging station.

Application:		Multi-room Multi-source audio amplifier/Server.
Characteristics:	General	4 zones, 5 sources.
	Amplifier	Class D amplifier - 2 x 20 W RMS per zone. (Only 0.1% distortion with 16W)
	Sources	2 x Build-in FM Tuner with RDS info. 1 x Digital audio player (USB slot, SD Card). 2 x external audio source with IR control (e.g. blu-ray player, TV, …).
	Updates	Software updates via LAN.
Settings:	Configuration	Via PROSOFT Suite 3.2 or higher and the MMA Remote Control.
Connections:	Ethernet	1 x RJ-45 Ethernet connector (future use).
	RS232	2 x serial RS232 ports. **Only use "COM2" on the MMA4 for connecting with the TDS14042 A/V Interface.**
	Speakers	4 x stereo connections for 4/8 ohm speakers.
	Line-out	RCA connectors to external power amplifiers (for example BASS reflex unit).
	Power supply	110 V - 230 V (50/60Hz).
	Remote control	Antenna connection for included antenna.
	FM tuner (2x)	FM Antenna connector (1x).
Power Consumption:		Max. 200W
Dimensions:		436 W x 415 H x 115 D (mm) 500 W x 300 H x 500 D (package)
Net | Gross Weight:		6 kg | 8,8 kg
Content:		MMA4, power cord, remote control + remote control

antenna + charging station, FM antenna.

Schematic Drawings:



Multiroom-Multisource Audio Amplifier 8 zones (MMA8) TDS14108

This is a high-quality audio distribution system allowing you to distribute up to 8 different sound sources to 8 audio zones.

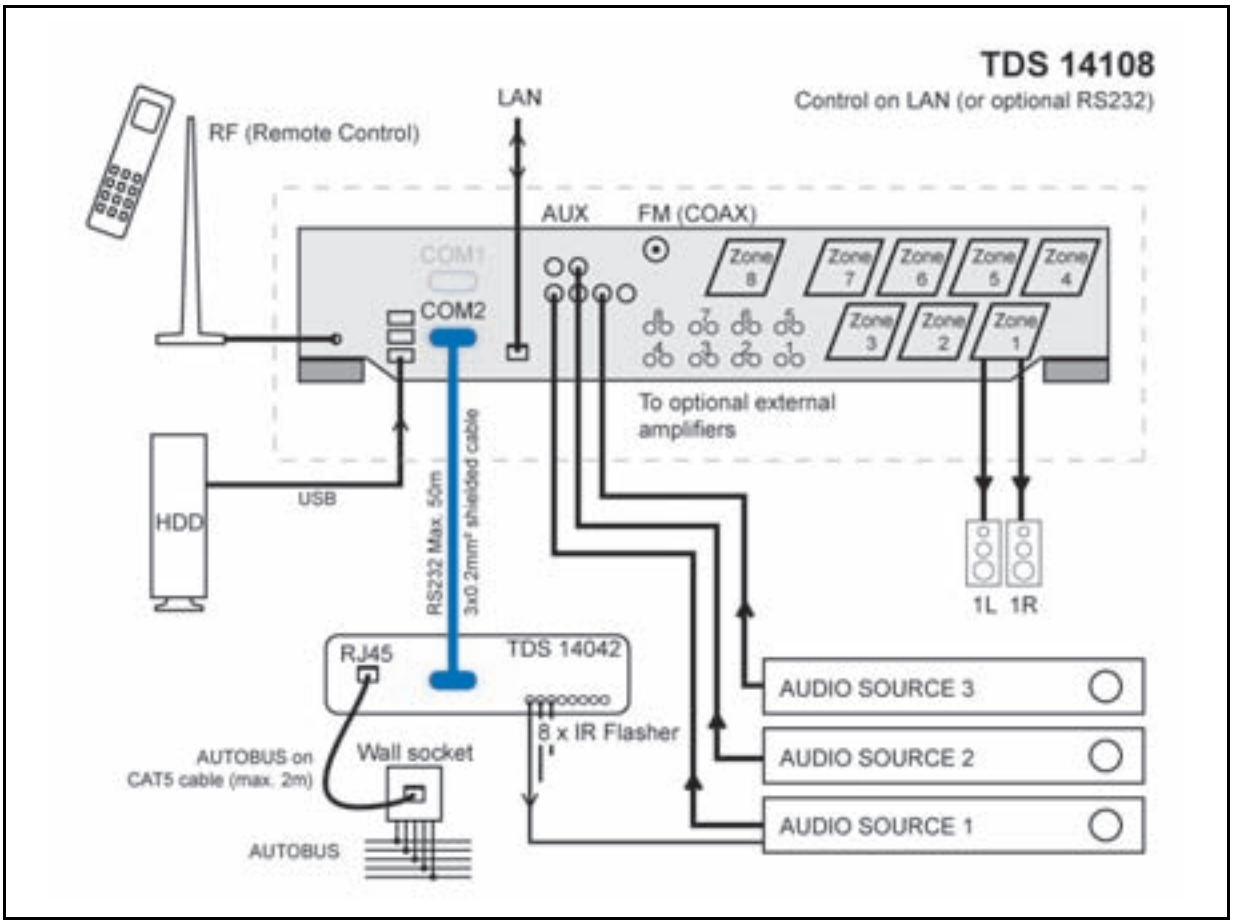
The integration between TDS and MMA4 is obtained by using LAN connection (A/V software license) or RS232 (TDS14042) to the DoIP system.

Each zone is equipped with a 2 x 20 watt RMS Class D amplifier. This unit has two build-in FM tuners, a digital audio stream and the possibility to connect two external audio sources.

The unit comes standard with a remote control, which can show info from a mp3 track or the tuner RDS information + charging station.

Application:		Multi-room Multi-source audio amplifier/Server.
Characteristics:	General	8 zones, 8 sources.
	Amplifier	Class D amplifier - 2 x 20 W RMS per zone. (Only 0.1% distortion with 16W)
	Sources	2 x Build-in FM Tuner with RDS info. 3 x Digital audio player (USB slot, SD Card). 3 x external audio source with IR control (e.g. blu-ray player, TV, …).
	Updates	Software updates via LAN.
Settings:	Configuration	Via PROSOFT Suite 3.2 or higher and the system Remote Control.
Connections:	RS232	2 x serial RS232 ports. **Only use COM2 for connecting to the TDS14042 A/V Interface.**
	Ethernet	1 x RJ-45 Ethernet connector (future use).
	Speakers	8 x stereo connections for 4/8 ohm speakers.
	Line-out	RCA connectors to external power amplifiers.
	Power supply	110 V - 230 V (50/60Hz).
	Remote control	Antenna connection for included antenna.
	FM tuner (2x)	FM Antenna connector (1x).
Power Consumption:		Max. 200W
Dimensions:		436 W x 415 H x 115 D (mm) 500 W x 300 H x 500 D (package)
Net | Gross Weight:		6,5 kg | 9,5 kg
Content:		MMA8, power cord, remote control + remote control antenna + charging station, FM antenna.

Schematic Drawings:



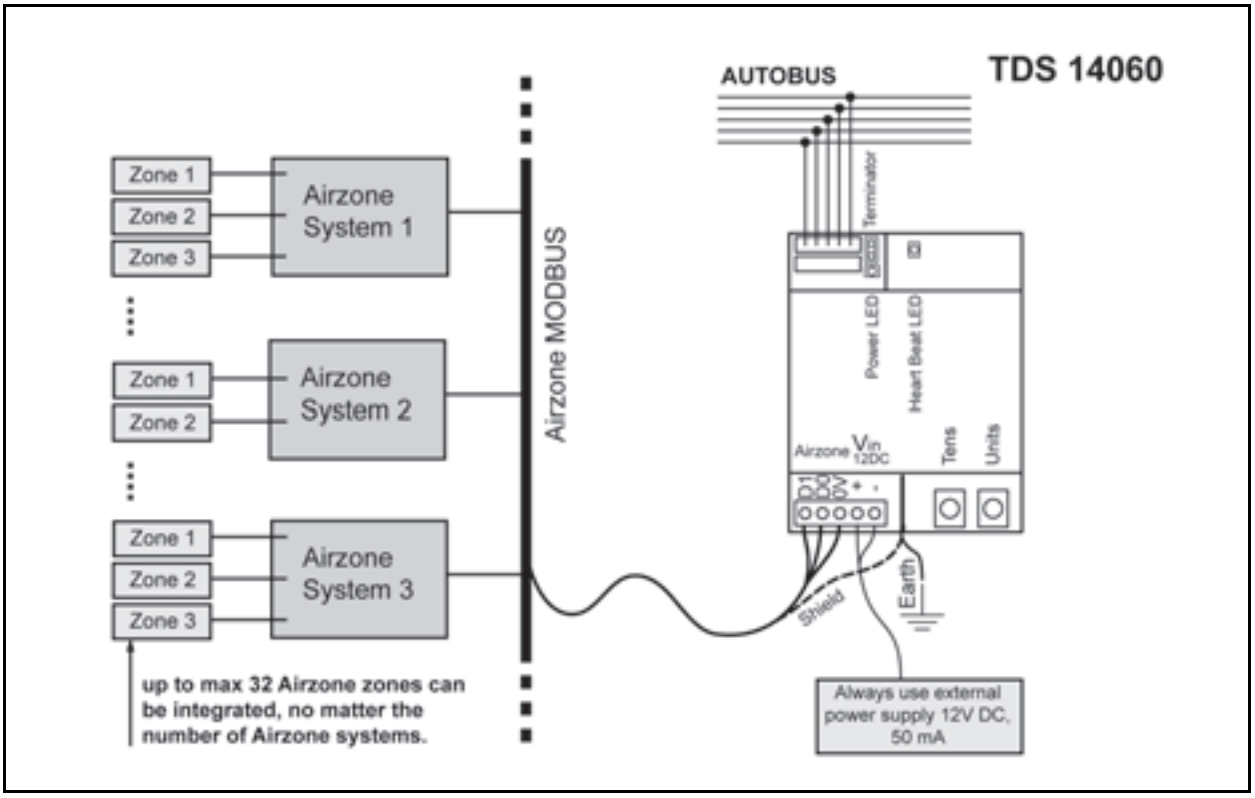
AIRZONE interface TDS14060

The TDS14060 TELETASK AIRZONE interface is an AUTOBUS interface for the integration with the AIRZONE (heating and) cooling system.

Application:		Interface for the integration with the AIRZONE (heating) cooling system.
Characteristics:		The interface is directly connected to the MODBUS connection of the AIRZONE system. Different Airzone systems can be connected to one MODBUS and all can be integrated with only one TELETASK Airzone interface. Up to maximum 32 Airzone zones can be integrated, no matter the number of Airzone systems. Support of the different modes per Airzone system:: Stop, Ventilation, Cool, Heat en Heat+ Support of the ON and OFF functionality per Airzone zone. (The Airzone interface is not supported by the TELETASK COMPACT and PROJECT central units).
Settings:	AUTOBUS address	By means of rotary switches 'Tens'+'Units'. The interface occupies 1 AUTOBUS address per 8 integrated Airzone zones. Maximum integration of 32 Airzone zones occupies 4 successive addresses.
	AIRZONE address	Every Airzone system has its own address (assigned by the Airzone installer) Every Airzone zone has its own sub address (assigned by the Airzone installer) Both Airzone addresses need to be entered in the TELETASK PROSOFT software package while programming the Airzone interface.
	Programming	Via PROSOFT V2.80 or higher
Installation:		DIN- rail mounting
Connections:	AUTOBUS	AUTOBUS connector set + patch cable supplied with this unit
	MODBUS	Screw terminals
	Power Supply MODBUS	Always use External Power Supply 12V DC, 0.05A (for galvanic separation of the AUTOBUS and

		MODBUS)
Power Consumption:	AUTOBUS	Max. 20 mA
	External Power Supply (12V)	Max. 50 mA
Dimensions:		63 W x 90 H x 60 D (mm)
Net | Gross weight:		0,130 kg | 0, 220 kg

Schematic Drawing:



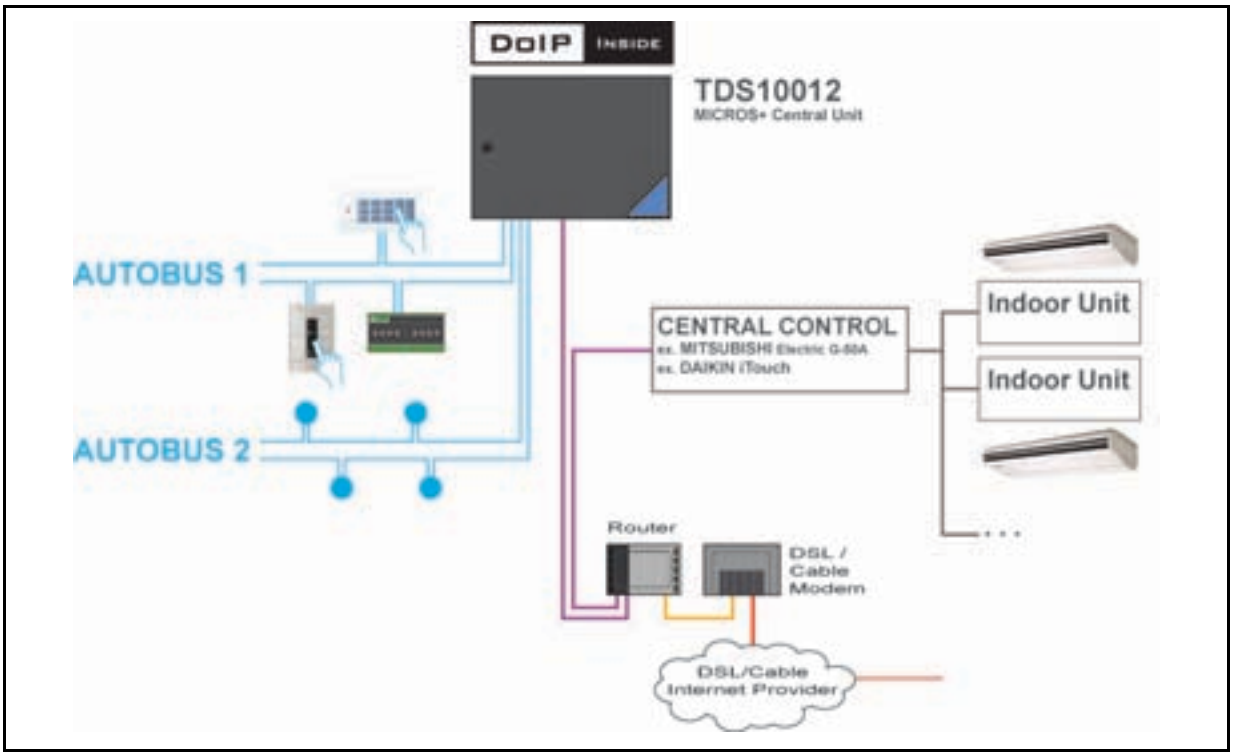
Airco interface licence TDS15200

By means of this powerful software interface it is possible to integrate (bi-directional) an air conditioning system with the TELETASK Home automation system.

This license supports ‘cool’, ‘heat’, ‘auto cool/heat’, ‘fan’, ‘fan speed control’, ‘direction’,…

Current system included into the licence:
DAIKIN systems (through iTouch).
Mitsubishi Electric: VRV systemen (through GB50 of GA150 gateway).

Application:	To control the an IP controllable airco system. Example: you an control the airco temperature settings on a TELETASK touch panel/touch screen. At the other hand you can also control the airco indoor unit with the airco remote control, and verify the new settings on the displays of the TELETASK system, … and much more.
Characteristics:	The system works with the information from the airco temperature sensors (no TDS12250xx temperature sensors are needed for this application). *DAIKIN:* A DAIKIN "iTouch" unit and software licences DCS004A51 or DCS007A51 are required. You can control up to 128 units. MITSUBISHI El.:A MITSUBISHI Electric GA150 or GB50 Gateway is required. Up to 50 units can be controlled. On top you can still control up to 50 zones using TELETASK sensors.
Settings:	Set up the IP address on the airco interface.
Configuration:	TELETASK configuration via PROSOFT Suite (V3.2 and higher).
Connections:	The TELETASK DOIP central unit and the airco IP unit are to be connected on a Local Area Network (Ethernet/LAN). De TELETASK DOIP Central Unit is equipped with default LAN connections. Only this TDS15200 licence is needed.
Power Consumption:	Not applicable.
Dimensions:	Software license packed in envelop with a CDRom 175 L x 25 W x 5 T (mm).
Net | Gross weight:	0,090 kg | 0,130 kg
Schematic Drawing:	


DoIP INSIDE
TDS10012
MICROS+ Central Unit
AUTOBUS 1
AUTOBUS 2
CENTRAL CONTROL
ex. MITSUBISHI Electric G-50A
ex. DAIKIN iTouch
Indoor Unit
Indoor Unit
Router
DSL / Cable Modem
DSL/Cable Internet Provider

Galaxy interface 32 zones TDS14021

TELETASK Interface to connect a Honeywell GALAXY (type 8, 18, 60 or 500) or a GALAXY G3 security system to the TELETASK system.

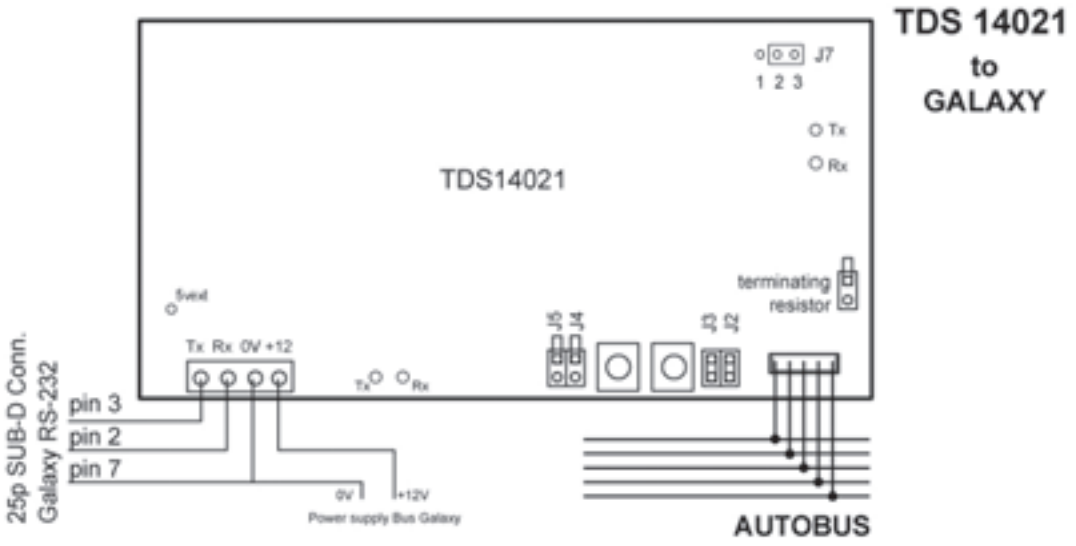
This interface makes it possible to use the motion detectors of the Security system to control domotics functions, such as lighting or heating/Cooling.

When the security system sets an alarm, the TELETASK system will be immediately triggered. Depending on the configuration this could call a TELETASK function. For example, a general mood called 'ALARM'.

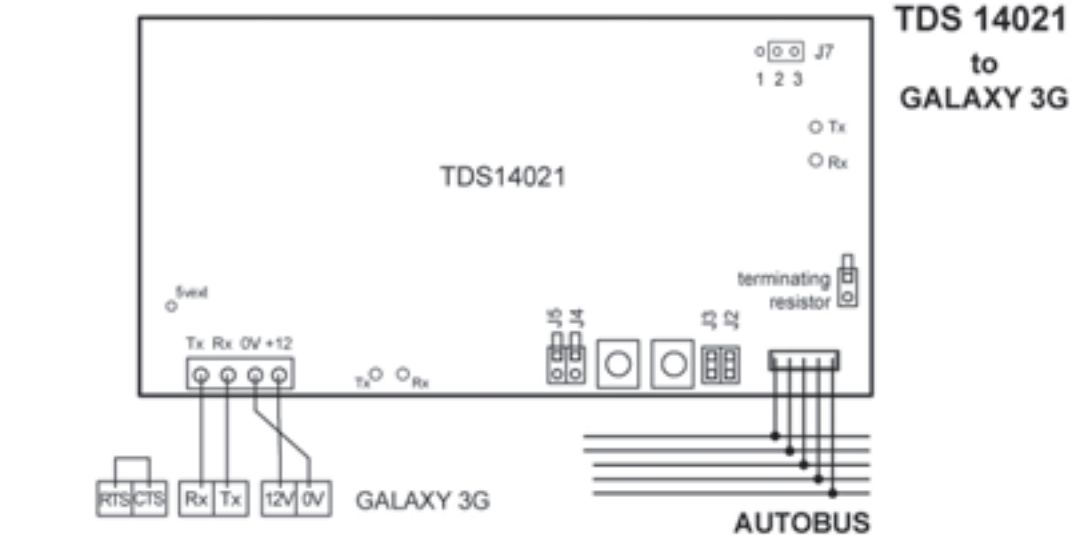
Application:		This interface makes it possible to use up to 32 motion detectors of the Security system to control a domotic function. The detector status is automatically transmitted to the TELETASK system via the interface.
Characteristics:		The TELETASK Galaxy interface is to be connected to the Galaxy RS232 interface or the build-in RS232 port (GALAXY G3 series).
Settings:	Functions	With PROSOFT Suite. Add up to four TDS14021 interfaces in PROSOFT (consecutive addresses) whereas the module is addressed with the first (lowest) address. One added interface equals 8 detectors/events. **ATTENTION: a GALAXY event (alarm, armed, disarmed, part-armed, part-disarmed) can not be used within a TELETASK motion detection or transparent function!**
	AUTOBUS address	Through rotary switches Tens + Units.
	GALAXY zones	GALAXY zones that can be detected start from 1001 to 2048 and from 3001 tot 4148. (GALAXY G3:on board zones are 1001 to 1016)
	GALAXY events	GALAXY events that can be used, are: ALARM / ARMED / PART-ARMED / DISARMED / PART-DISARMED.
	GALAXY Communication	In the menu 56 'communication' select 'RS232 module', mode=direct, format=SIA (level 1, triggers ON: 02 Intrude, 10 setting, 11 reset cancel), account=123456, baud rate=19200 (1 stop, 8 data, no parity).
Installation:		DIN rail mounting
Connections:	AUTOBUS	By the enclosed AUTOBUS connector.
	Galaxy serial interface	Screw terminals (4 wires, max. 10m).
Power Consumption:		Max. 90 mA
Dimensions:		152 W x 78 H x 48 D (mm) (About 8,5 modules)

Gross weight: 0,270 Kg

Schematic Drawing:



JUMPER 2	JUMPER 3	JUMPER 4	JUMPER 5	# addresses
CLOSED	CLOSED	**OPEN**	**OPEN**	**4 (standard)**
		OPEN	CLOSED	3
		CLOSED	OPEN	2
		CLOSED	CLOSED	1



JUMPER 2	JUMPER 3	JUMPER 4	JUMPER 5	# addresses
CLOSED	CLOSED	**OPEN**	**OPEN**	**4 (standard)**
		OPEN	CLOSED	3
		CLOSED	OPEN	2
		CLOSED	CLOSED	1

ATTENTION: At the GALAXY G3 unit it is necessary to switch Dipswitch 8 OFF.

Replaceable relay for MICROS		TDS90122
Application:		Replaceable relay for an internal relay of the MICROS central unit. Suitable for high inrush current.

MICROS Spare RAM kit		TDS90122
Application:		REPLACING THE RAM chips (set of two) in the MICROS central unit.

Set of 10 LED's		TDS902xx
Application:		LED's for INP08D-IN feedback input interface TDS12127
Characteristics:	LED	pre wired LED diameter 3mm
	Order numbers	TDS90250 Red TDS90251 Green TDS90252 Yellow
Installation:		To be placed in drill opening of 3mm
Connections:		On INP08D-IN feedback between the screw connectors OUT en +12V BUS
Related products:		TDS12127

Set van 3x10 LED's		TDS90253
Application:		LED's for INP08D-IN feedback input interface TDS12127
Characteristics:	LED	10 x LED diameter 3mm red 10 x LED diameter 3mm green 10 x LED diameter 3mm yellow
Installation:		To be placed in drill opening of 3mm
Connections:		On INP08D-IN feedback between the screw connectors OUT en +12V BUS
Related products:		TDS12127

Demo case NANOS TDS56421

This democase is intended to be used for:

- Practicing the configuration of a TELETASK System
- Basic training about cabling and connecting
- Commercial demo, including wireless GUI's (Graphical User interfaces) on PC, Smartphone, iPhone and iPod Touch.
- Exercises and demo of the integration of IP camera's on the GUI's (built-in Wi-Fi router + IP-camera)

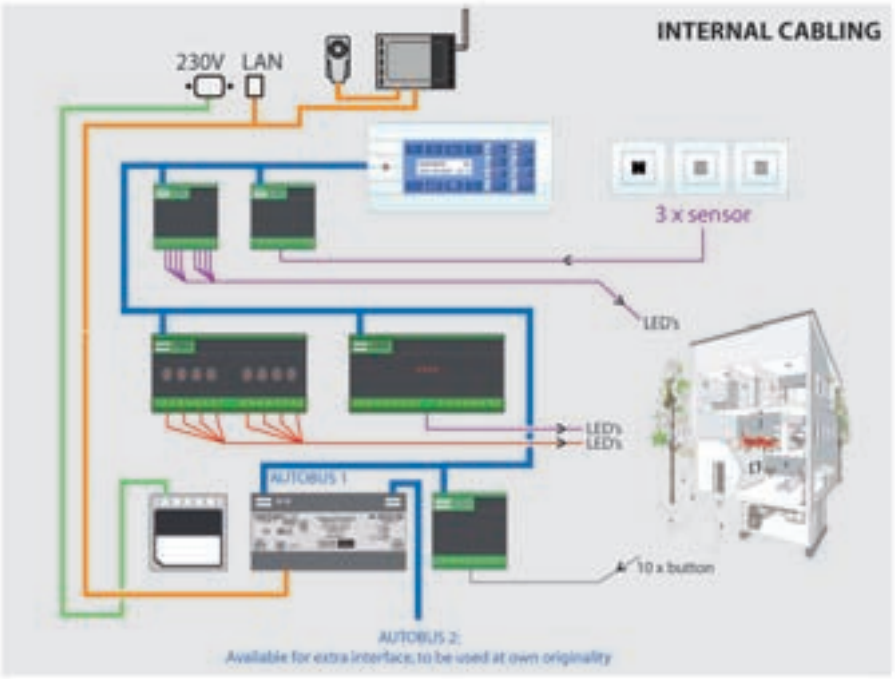
The case contains an illustrated presentation panel, technical interfaces, LATUS-LCD (MT), T°sensors (2x), light sensor…

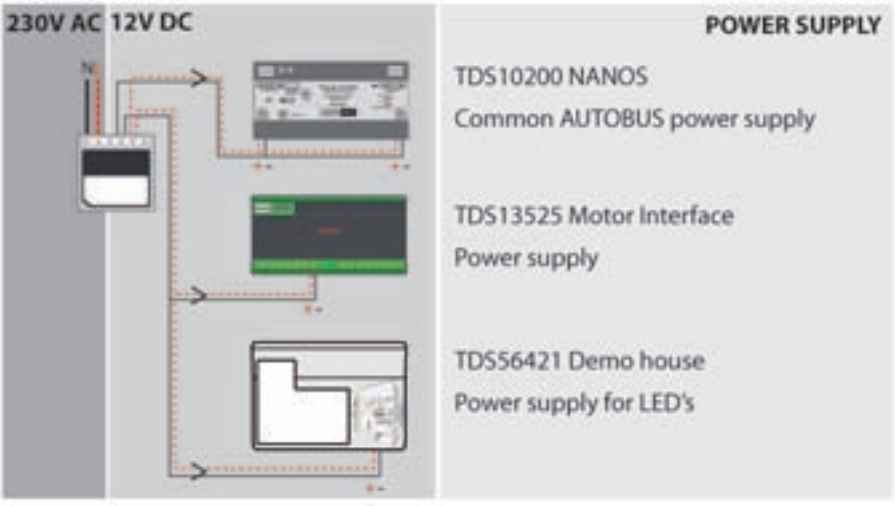
The mains cord is the only connection you have to make for a complete PROSOFT and GUI demo.

Application:		Training, demo, programming practice.
Characteristics:	Mechanical	Ruggedized case with technical interfaces, presentation panel and large top compartment for documents, samples etc.
	Electrical	Plug-in connector for 100-240VAC power cord. The mains adapter of the Wi-Fi router only suited for 230V application (internally connected; can be exchanged by customer).
Settings:	Content	TDS10200 NANOS Central Unit TDS10130 Power Supply TDS12015MT LATUS LCD TDS12116 Digital input interface TDS12250 Temperature sensor TDS12270 Light sensor TDS12309 Analog input interface TDS12502 Remote control TDS13500 Relais interface TDS13525 DC Motor interface TDS13608 Dimmer interface TDS15100 Licence for GUI (PC) TDS15101 Licence for iSGUI (mobile phone) Wi-Fi access point IP- colour camera
Installation:		Carry case – Ready to use.
Connections:	Electrical	Plug-in connector for 110/230V power supply cord.
	LAN	WIFI access point on board.
Power Consumption:		Not applicable
Dimensions:		600 x 450 x 220 mm
Net | Gross weight:		12.7 | 13 kg
Schematic drawing:		

TDS 56421

1	TDS13608
2	TDS12309
3	TDS13500
4	TDS13525
5	TDS10130
6	TDS10200
7	TDS12116
8	TDS12015MT
9	TDS12270WH
10/11	TDS1250WH



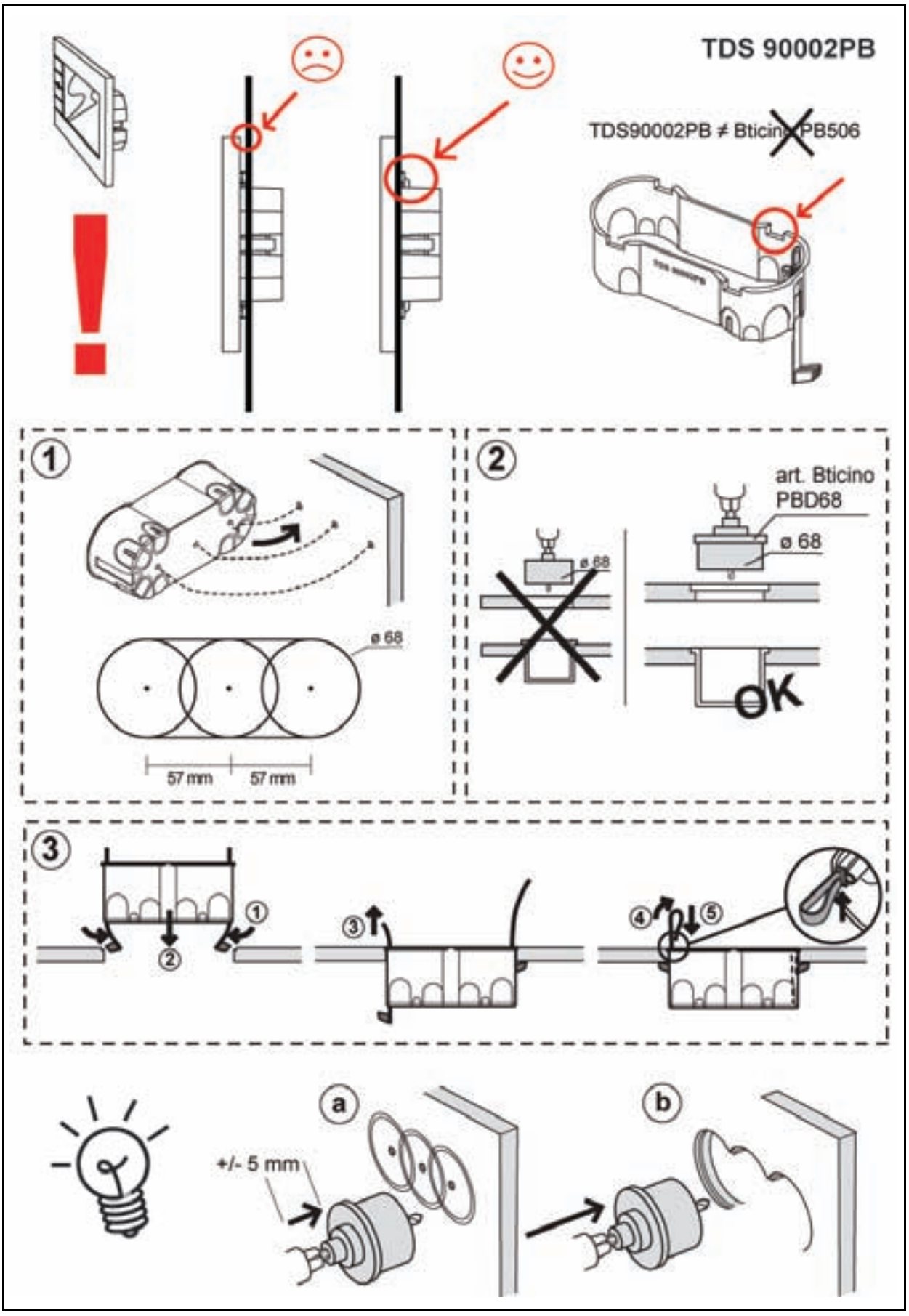


LATUS family Wallbox for PLASTER BOARD TDS90002PB

This wallbox should be used when installing a LATUS in a 'hollow' wall, such as plaster board or wood board walls.

The wallbox is specially processed for a LATUS touch window.

Application:	Installing a LATUS touch window in a hollow wall
Installation:	See schematic drawings. To be placed in a slotted hole ø68x182mm with extra removed border (!). Use Bticino PBD68 tool.
Connections:	Not applicable
Power Consumption:	Not applicable
Dimensions:	183 W x 69 H x 51 D (mm)
Net | Gross Weight:	0,050 kg |0,50 kg
Schematic Drawings:	


TDS 90002PB
TDS90002PB ≠ Bticino PB506
1
ø 68
57 mm
57 mm
2
art. Bticino
PBD68
ø 68
ø 68
OK
3
a
+/- 5 mm
b

AUTOBUS network cable 2+4 TDS90006

The TELETASK AUTOBUS cable is used to connect all the TELETASK interfaces with each other. The interfaces are connected according a bus topology: one interface is connected after the other.

Application:		The TELETASK AUTOBUS cable is used to connect all the TELETASK interfaces and the central unit with each other.
Characteristics:	Mechanical	Bright blue colour. Max. cable length: 1km. The AUTOBUS cable contains six copper conductors: 4 x 0.22 mm² (data transmission) + 2 x 1.00 mm² (power supply) and electro-magnetic shielding. The insulations are made from low smoke polyvinyl-chloride (PVC). PVC is conforming to the UL94-V0 standard. The 2 insulations from the 1,00mm² wires are treated with a non migrating Pet-sp tape. The electromagnetic shielding is made from a 100% covering aluminium + polyester tape (LAP).
	Electrical	High speed bus cable with velocities up to 1Megabit. Insulation voltage: Of the covering blue sheath: 3500V (test) Of the red and black sheath: 2000V (test). Of the blue, white, green and yellow sheath: 2000V (test). Operating voltage: Of the red and black wire (1mm²): 13,5V Of the blue, white, green and yellow wire (0.22mm²): 5V.
	Operating Temp.	-10 °C / +80 °C
Settings:		None
Installation:		Built-in electrical tubes.
Connections:	Central Unit	Use the plug-in connector in the TELETASK central unit. !!! Always connect the shielding of the AUTOBUS on through the AUTOBUS connector (5th pin).
	Interfaces	Use the special AUTOBUS connector set, delivered with every TELETASK interface. The colours correspond with the wires of the AUTOBUS connector set. !!! Link every cable from the AUTOBUS including the shielding according the bus system using the AUTOBUS connector set. !!! Star topology cabling is NOT allowed.

Dimensions:	Diameter:	6. 5 mm +/- 0.2 mm
	Length:	Reels of 100 m
	Packaging:	39 x 39 x 9 cm
Net | Gross Weight:		5,5 kg | 5,5 kg

AUTOBUS network cable 2+4 in flexible tube TDS90007

The TELETASK AUTOBUS cable in a flexible tube of 20 mm is used to connect all TELETASK interfaces with each other. The interfaces are connected according a bus topology: one interface is connected after the other.

Application:		The TELETASK AUTOBUS cable is used to connect all TELETASK interfaces and the central unit with each other.
Characteristics:	Mechanical	Bright blue colour. Max. cable length: 1km. The AUTOBUS cable contains six copper conductors: 4 x 0.22 mm² (data transmission) + 2 x 1.00 mm² (power supply) and electro-magnetic shielding. The insulations are made from low smoke polyvinyl-chloride (PVC). PVC is conforming to the UL94-V0 standard. The 2 insulations from the 1,00mm² wires are treated with a non migrating Pet-sp tape. The electromagnetic shielding is made from a 100% covering aluminium + polyester tape (LAP). The flexible tube is conform the standard EN 50 086-2-2
	Electrical	High speed bus cable with velocities up to 1Megabit. Insulation voltage: Of the covering blue sheath: 3500V (test) Of the red and black sheath: 2000V (test). Of the blue, white, green and yellow sheath: 2000V (test). Operating voltage: Of the red and black wire (1mm²): 13,5V Of the blue, white, green and yellow wire (0.22mm²): 5V.
	Operating Temp.	-10 °C / +80 °C
Settings:		None
Installation:		In wall mounting
Connections:	Central Unit	Use the plug-in connector in the TELETASK central unit. !!! Always connect the shielding of the AUTOBUS on the special lip in the central unit.
	Interfaces	Use the special AUTOBUS connector set, delivered with every TELETASK interface. The colours correspond with the wires of the AUTOBUS connector set. !!! Link every cable from the AUTOBUS including the shielding according the bus system using the AUTOBUS

		connector set. !!! Star topology cabling is NOT allowed.
Power Consumption:		Not applicable
Dimensions:	Cable diameter: Tube diameter: Cable Weight: Length:	6.5 mm +/- 0.2 mm 20 mm 55,1 kg/km Reels of 100 m
Gross weight:		12,240 kg

VERSION	MODIFICATION
V145	NEW TDS15200 DAIKIN Interface
V146	TDS10200 updated inrush current
V147	TDS12310 added application examples
V148	TDS12124/TDS12125 changed text and drawing
V149	TDS10012 changed drawings TDS14021 changed drawing
V150	TDS12125/TDS12125 TDS13610 changed text
V151	Added AUTOBUS connector set / patch cable supplied TDS12310 changed text TDS12129 changed text TDS10200 changed picture System limits changed TDS10202 added text TDS12502 changed text
V152/153	TDS10200 changed text + technical drawing added
V154	Changed TDS12270B to TDS12270xx
V155	Raised version number
V156	TDS13610 Changed image
V157	TDS14021 changed text and schematic drawings
V158	TDS13603 Changed text
V159	TDS14021 Minor corrections
V160	TDS15101 added
V163	TDS15101 Drawing added TDS12129 changed text and drawing TDS12131 added TDS14050 changed text TDS15100 added TDS56421 added
V167	TDS14042 added TDS12003 added TDS56421 changed text and drawing TDS12021 added TDS13224 added TDS12001 & TD12015 order codes changes TDS12310 changed drawing TDS15502 added info
V168	TDS15100 & TDS15101 Camera remark added
V169	TDS12017 changed text
V170	TDS90002PB added
V171	TDS12003 changed drawing
V172	TDS13500 changed drawing TDS12021 changed drawing
V173	TDS12022 added
V174	TDS12110 added a remark
V175	TDS90410 added
V176	Added dimensions for SERVUS wallbox Change eexplanation about Local Mood
V177	TDS13221 added TDS14104 & TDS14108 added Category asseccoires changed to miscellaneous Minor changes TDS12510, TDS14030
V178	TDS13502 added
V179	TDS15200 Changed
V180	TDS13221 Changed TDS13224 Changed TDS14104 Changed

	TDS14108 Changed TDS14042 Changed cable limits TDS13608 Added Ω value TDS10012 Added Ω value TDS13610 Added Ω value TDS13226 Added TDS13620 Added
V181	Added chapter Qualification TDS13226 Update TDS13620 Update TDS13621 Update TDS14043 Update