TDS10300 PALAS Central Unit (G3)

DIN-rail compatible central unit of the latest generation (G3). Equipped with 2 AUTOBUS connections (can be extended to four). Configuration via (free of charge) PROSOFT. By default, up to 62 AUTOBUS interfaces can be connected. In combination with the TDS10202 extension interface, this can be extended up to 124 interfaces.
Up to 10 PALAS (or other G3) central units on LAN can behave as one large integrated system with up to 1240 interfaces (= thousands of I/O's).
See more details and remarks in the on-line technical handbook and download the latest version of the G3 compatible PROSOFT Suite (4.0 or higher) from professional.teletask.be

APPLICATION

For use in integrated Home and Building automation installations with a higher number of inputs/outputs/interfaces. Typical for large residential and professional projects.

CHARACTERISTICS

General

Latest generation hardware and software (G3 'Generation Three'). Overall improved characteristics compared to the previous generation. Fully compatible with most existing user interfaces and technical interfaces.
Equipped with state-of-the-art high speed, ultra low power, dual core CPU.
System backup with SuperCap/nvRAM (no batteries or SD-card used).
Gigabit ethernet LAN connection; downward compatible also with 100Mb networks

Outputs

Maximum capacity: 500 outputs (the total number of relays outputs + dimmer outputs + motor outputs together is 500/central unit; max. 10 central units in one integrated network with one .nbt file (= up to 5000 outputs).

Inputs

Two AUTOBUS connections (extendable to 4 using the optional TDS10202 AUTOBUS extension interface).
Each AUTOBUS has a capacity of up to 31 interfaces.
AUTOBUS length: 2(4)x up to 1000m (about 150m without optional power supply, depending on the number and type of connected interfaces).

System Limits

- 500 Local Moods
- 50 General Moods
- 500 Rooms
- 50 Timed Local Moods
- 500 Sensor Zones
- 50 Audio Zones (depends on the connected audio system, see datasheet of TDS15240)
- 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

- Two 12VDC inputs (one for each AUTOBUS)
- Use TDS10132 or TDS10134 (AUTOBUS 1 and 2 are galvanically isolated if every AUTOBUS has its own isolated power supply).

Not supported (very old) interfaces

- TDS12110 SERVUS Colour touch screen
- TDS12061 ILLUS Mono/colour touch screen
- TDS12015 LATUS LCD touch panel
- TDS12016 LCD touch panel 5 buttons
- TDS12017 VFD touch panel (BTicino compatible)
- TDS12145 chipcard reader
- TDS12304 (end of life) 4-channel analogue input interface
- TDS12308 (end of life) 8-channel analogue input interface
- TDS13603 DMX interface
- TDS14000 TELETOUCH telephone interface
- TDS14010 Audio access audio interface
- TDS14016 Multi-Audio access audio interface
- TDS14020/21 Galaxy alarm serial interface
- TDS14030 B&O interface
- TDS14035/36 Bose serial interface
- TDS14040 RC5 code audio generator
- TDS14041 IR learnable interface
- TDS14042 universal RS232 + IR-interface
- TDS14045 Xantech audio interface
- TDS14050 TV-interface
- TDS14060 AIRZONE interface
- TDS15100 GUI license

SETTINGS

Programming

With PROSOFT Suite 4.0 or higher

AUTOBUS terminating resistor

Integrated in the unit (no action needed)

SW1

If SW1 is pushed for 10 seconds, the Ethernet settings of the DoIP central unit are brought back to DHCP.

SW2

Sends IP address of the central unit to the PC (over Ethernet)

Reset to factory settings
Push 'SW1'+ 'SW2' long (10s) on power up: restart central unit to factory settings

Erase .nbt file
Push 'SW1' + 'SW2' long (10s). At an active working central unit the .nbt file will be deleted from the central unit.

INSTALLATION

DIN-rail mounting
6 modules wide (108mm).
Standard DIN-rail mounting. At eye level is recommended.

Supply Voltage
12V supplied by the connected 12V power supply/supplies.

Important installation remarks
- ! Do not mix G3 central units with G1 or G2 centrale units.
  e.g. TDS10300 with TDS10309 = OK
  e.g. TDS10300 with TDS10009 = NOT OK!
- ! Must be placed inside an electrical cabinet to avoid the risk of an electrical shock.
- ! Follow the safety standards from the local authorities to be compliant with all regulations.

CONNECTIONS

AUTOBUS 1
Plug-in screw terminal; 4 wires - AUTOBUS cable

AUTOBUS 2
Plug-in screw terminal; 4 wires - AUTOBUS cable

AUTOBUS extension interface
Special extension connector is provided to one optional TDS10202 AUTOBUS extension interface (becomes 4 x AUTOBUS; interconnection cable provided with TDS10202).

Ethernet
Gigabit (1000 Mbit) connection to the LAN network using an RJ45/CAT5e patch cable. Downward compatible with 100Mbit networks.

Power Supply
Plug-in screw terminal; 2 wires +12V and 0V.

POWER CONSUMPTION

AUTOBUS
Internal consumption is 100-160mA on the first power supply input (excluding external AUTOBUS loads). And additional 20-40mA on the second power supply input (also consumption without connected interfaces).

DIMENSIONS
108 W x 90 H x 60 D (mm)

NET | GROSS WEIGHT
0,170 kg |0,210 kg

PACKAGING CONTENT:
TDS10300 PALAS central unit
Four terminating jumpers (to be used to terminate at the far-end AUTOBUS interfaces)
Booklet with technical data

ENVIRONMENTAL CONDITIONS

Storage (non-condensing or icing)
Temperature: -20°C to +65°C max.
Relative humidity: 5% to 85% max.

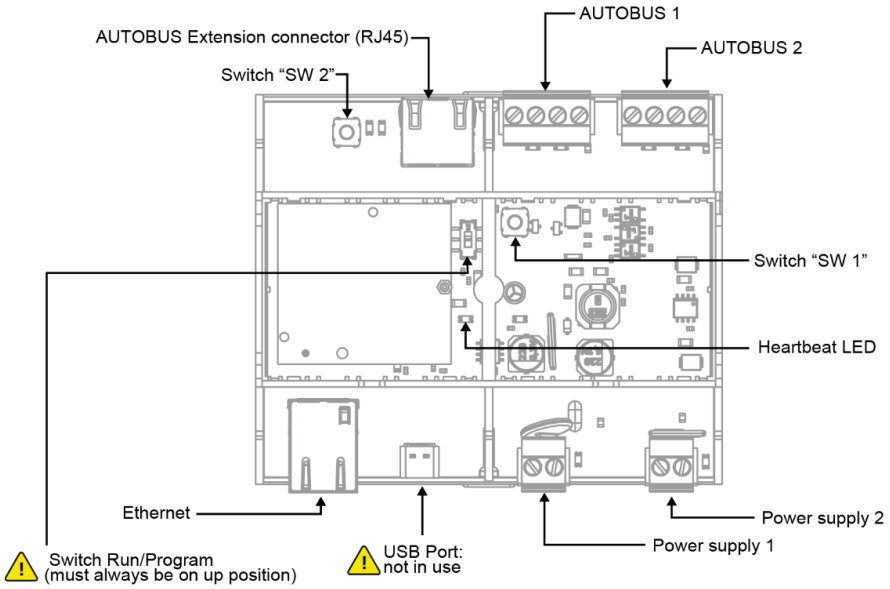
Operation (non-condensing or icing)
Temperature: 0°C to +50°C max.
Relative humidity: 5% to 80% max.

IP PROTECTION RATE
IP20

LIMITED WARRANTY
4 years

SCHEMATIC DRAWING

Connectors, switches and LED's



Connections