

MICROS central unit

TDS10010



32 internal input (externally expandable up to 192) and 2 internal inputs for analog sensors (expandable to 10). 24 relay outputs 250V/10A, which can be extended externally with 16 relays 2A/250V plus 56 (7 x 8) relays on AUTOBUS 16A/250V = 96 relays in total. 50 powerful programmable clocks (actions) are available. They can take actions every x- days, weeks, months, years, only on weekends, working days, etc...

Maximum 30 interfaces can be connected on the (4-wire) AUTOBUS connector. Optionally you can plug-in a 24 channel 0-10V dimmer control board to mainly control lights and analog controllable heating/cooling systems.

Programming software 'PROSOFT' and 'TIMESOFT' are included free of charge. Technical handbooks and the software is included on CD-ROM.

Application: Domotics installations with up to 192 inputs, 96 relay outputs (contacts) and up to 16 analog (dimmer) outputs...

Characteristics:

Outputs*:

- 24 pluggable relays.
- Switching power per relay output:
- $I_N = 10A/230V \cos \varphi 0,7$
- $I_{HI} = 80A$ (see Remark: Inrush Currents)
- 2x sub-D connector to be connected to two relay modules equipped with 8 relays each.
- Optionally expandable with a dimmer interface with 16 channels 0-10V.
- Maximum "O" interface occupation:
 - max. # dimmer outputs: 24 (=3 modules)
 - max. # relay outputs: 96 (=12 modules)
 - max. # motor outputs: 32 (=8 modules)

Inputs*:

- 30 direct digital inputs for voltage free contacts.
- Two 230V inputs.
- Two analog inputs for direct connections of the TELETASK sensors (temperature, light and humidity).
- 1 Autobus connection on which max. 30 "I" interfaces can be connected. Max. length of the AUTOBUS: 1000m (150m without extra power supplies).
- Max. 35 "I" Adresses can be defined.
- 1 RS232-interface.

* 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*:

- 25 Transparent Functions
- 30 Timed or Motion Detector Functions
- 32 Motor Functions
- 10 Fan Functions
- 100 Local Moods
- 10 Timed Local Moods.
- 20 General Moods.
- 18 Sensor Zones
- 10 Audio Zones.
- 50 Clock Functions.
- 20 Proces Functions.
- 40 Flags.
- 30 If-then-else Functions.

50 Messages and/or Alarms.
 30 Conditions.
 50 Chip Card and/or Proximity Tags
 50 Rooms

Timer limits*:
 Fan function: max. 7200 sec.
 Timed function: max. 7200 sec.
 Motor function: max. 7200 sec.
 Timed Local Mood: max. 7200 sec. per line
 Motion Detector: max. 7200 sec.

Power Supply
 Maximum dissipated load: 65W
 Voltage: 100-250VAC
 Frequency: 50Hz / 60Hz

Settings:

AUTOBUS	PC			
Baudrate	Switch 1	Switch 2	Switch 3	Switch 4
1200	OFF	OFF	-	-
2400	ON	OFF	OFF	OFF
4800	OFF	ON	ON	OFF
9600	ON	ON	OFF	ON
19200	-	-	ON	ON

Programming: Through the PROSOFT software, clocks are programmed through the TIMESOFT software.

Terminating resistor AUTOBUS: The terminating resistor is activated when the jumper is placed over the two concerned pins. This is only needed when the central unit is placed at the end of the AUTOBUS (only one AUTOBUS cable is connected to the central unit).

Potentiometer: Contrast of the LCD-display.

Pin row under CPU: remove for initialising the RAM-memory during the start-up.

Installation:

To be mounted on a flat surface.
 Install the MICROS housing on eye height (easy accessible to do the necessary settings on the key pad and display).
Separated cable canals for inputs and outputs:

- Inputs (low voltage): through the rectangular opening below- left.
- Outputs (higher voltage): through the break-out holes in the bottom/back.

Connections:

Direct inputs (30+2): by screws connectors, max. 1,5mm² (advised wires 0,5-0,8mm²)

Sensor inputs: Idem

AUTOBUS: idem

Relay contact outputs: idem

External relay modules (max. 2): sub-D connector (female on the pcb; + adapted cable)

pieces):

Dimmer extension board (optional)	Dimmer extension board (optional)
RS 232:	sub-D connector 9 poles (female on the MICROS pcb)
Power supply:	100-240V (50-60Hz) max.1A, by power cord (supplied with the central unit)
Earthing:	Allways use the external screw at the bottom right to connected with the main central earth wire.

Power Consumption

Dimensions:

Dimensions 450 B x 370 H x 85D (in mm)

Net | Packaged Weight

6,9 kg | 7,8 kg

Schematic Drawings:



