

## Application

Communication over TCP/IP network (internet/intranet) with TROVIS 5100, 5400 and 5500 Automation Systems



The web module allows the visualization of data from smart controllers in the Series TROVIS 5100, 5400 and 5500 using the TCP/IP protocol. The plant schematics, relevant control parameters and time schedules of a connected controller can be viewed on a web browser.

Data from connected controllers are saved cyclically in the web module and can be displayed as trend graphs. An alarm management handles incoming fault alarms and sends event-triggered e-mails to max. four e-mail addresses.

Communication to Modbus devices is established either over RS-232 or RS-485 (2-wire/4-wire). There are two Modbus communications interfaces to allow two controllers to communicate with the web module over the RS-232 interface or a group of controllers to communicate with the web module over the RS-485 interface and an additional controller to communicate with the web module over the RS-232 interface. The number of controllers that can be connected is restricted by the maximum number of plant schematics (4) and the number of maximum data points (256).

## Special features

- Visualization and operation using a web browser
- Data logging (trend graphs and function to export data as CSV files)
- Alarm management including e-mail notification
- Four configurable user levels
- High password security (MD5 transmission)
- Ethernet interface 10/100 Mbit
- RS-232 for configuration
- RS-232, RS-485 (2-wire/4-wire) Modbus RTU
- Processing of max. three heat meters
- Dynamic DNS-supported internet connection
- LEDs for Power, TxD, RxD, 10 Mbit, 100 Mbit
- Mounting on a 35 mm top-hat rail according to DIN EN 50022
- Voltage supply 230 V AC, 50/60 Hz

The web module editor software tool is used to create applications for the web module. This tool allows users to configure all functions over intranet/internet and, for example, to alter user access rights and e-mail addresses.



Fig. 1 · TROVIS 5590 Web Module

## Technical data

Interfaces	
Serial interfaces (top)	RS-232 M-Bus using screw terminal (plug-type) RS-232 or RS-485 (2-wire/4-wire)
Ethernet interface (bottom)	LAN connection 10/100 MBit
Power supply	230 V AC, 50 Hz, max. 3 VA using screw terminals
Transmission rate	2400, 4800, 9600, 19200, 38400 bit/s
Terminals	Max. 2.5 mm <sup>2</sup> or 2 x 1.0 mm <sup>2</sup> wire cross-section
LEDs	Operation Send and receive data (controller and control station) LAN 10/100 Mbit
Permissible ambient temperature	Operation: 0 to 40 °C Storage and transport: -10 to 60 °C
Degree of protection	IP 40 according to IEC 529
Class of protection	II according to VDE 0106
Degree of contamination	2 according to VDE 0110
Overtoltage category	II according to VDE 0110
Humidity rating	F according to VDE 40040
Noise immunity	According to EN 61000-6-1
Noise emission	According to EN 61000-6-3
Housing	Plastic
Weight	Approx. 0.2 kg

## Ordering text

TROVIS 5590 Web Module

## Scope of delivery

TROVIS 5590 Web Module with RS-232 communications cable

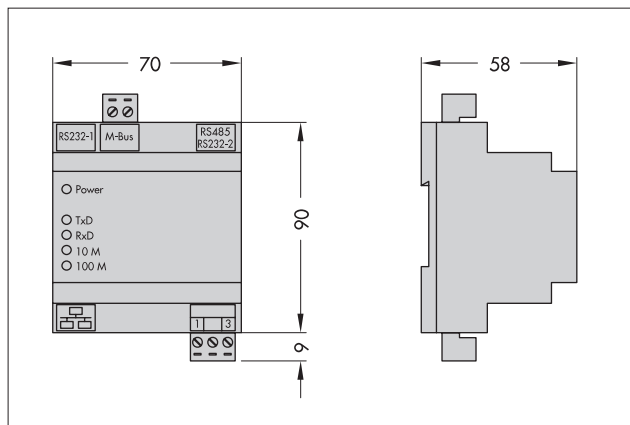
## Accessories

- Web module editor tool Var.-ID 2559750
- RS-232 communications cable, 1 meter 1400-9958
- RS-485 communications cable, 1 meter 1400-9959
- RS-232 communications cable, 1 meter 1400-9957  
(enables communication settings to be read without TCP/IP access)

## Mounting

Mounted on 35 mm top-hat rail according to DIN EN 50022

## Dimensions in mm



Specifications subject to change without notice.



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