



# Fieldbus module

- I/O modules for Modbus®-RTU and SAIA® S-Bus
- Proven I/O configurations for analog and digital signals as well as PT100/PT1000

Available now: Digital only version with additional input status LEDs and manual output mode!



Fieldbus modules made by esco - a range of versatile modules well suited for all kinds of control applications. Fieldbus modules from esco are ideal components in order to implement basic PLC functionality in combination with touch panels made by HAKKO.

- Proven I/O configurations for current and voltage
- Digital version with input status LEDs and manual output mode (three position toggle switch)
- Stores logging data when connected to HAKKO touch panels

# Fieldbus module

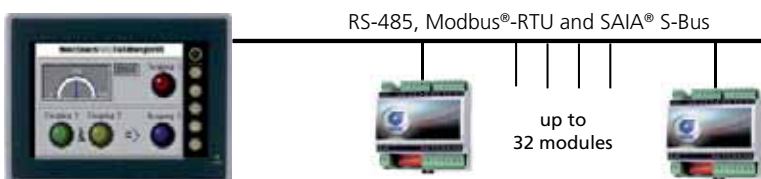
## Specifications

| Communication            |   |
|--------------------------|---|
| Bus interface            | RS-485  |
| Bus protocol             | Modbus®-RTU and SAIA® S-Bus (Data-Mode)   |
| Signal inputs            |   |
| Digital inputs           | 24 V DC, 5 mA   |
| PT100/1000 inputs        | Range -100°C ... +500°C, resolution 0...65536   |
| Analog inputs voltage    | 0 ... 10 V, resolution 0 ... 10000  |
| Analog inputs current    | 4 mA ... 20 mA, resolution 4000 ... 20000   |
| Signal outputs           |   |
| Digital, open collector  | 24 V, 50 mA, short-circuit-proof  |
| Digital, relay           | 24 V DC, 0,5 A<br>250 V AC / 6A-AC1 / 2A-AC3, isolated  |
| Analog, voltage          | 0 ... 10 V, resolution 0 ... 10000  |
| Analog, current          | 4 mA ... 20 mA, resolution 4000 ... 20000   |
| Resolution A/D converter | 0 ... 65536 steps (16 bit)  |
| Power requirements       |   |
| Supply voltage           | 24 V DC, ±20%   |
| No-load current          | 20 mA   |
| Environmental conditions |   |
| Ambient air temperature  | -10°C ... +50°C (tolerance <0,1%),  |
| Humidity                 | < 95% relative humidity, not condensing   |
| Housing                  |   |
| Protection class         | IP20  |
| Form factor              | 45 mm side-by-side mounting   |
| Dimensions (H x B x T)   | 90 x 88 x 58 [mm]   |
| Mounting                 | DIN rail TS35 or wall fastening   |
| Connections              | Spring-cage connection terminal up to 1,5 mm <sup>2</sup><br>Screw connection terminal up to 1,5 mm <sup>2</sup> on I/O-module 7737 |
| Standards                |   |
| EMC                      | According to EN 61326   |
| CE certification         | Yes   |

## Available modules and I/O configurations

| Model number    | Digital inputs | Analog inputs                       | Digital outputs | Analog outputs     |
|-----------------|----------------|-------------------------------------|-----------------|--------------------|
| I/O module 7532 | 4 x 24 V       | 4 x 4 mA ... 20 mA                  | 4 x relay       | 2 x 4 mA ... 20 mA |
| I/O module 7737 | 2 x 24 V       | 4 x PT100/PT1000                    | 6 x relay       | ---                |
| I/O module 7800 | 7 x 24 V       | ---                                 | 4 x relay       | ---                |
| I/O module 7814 | ---            | 4 x PT100/PT1000,<br>3 x 0 ... 10 V | ---             | 4 x 0 ... 10 V     |
| I/O module 7738 | 16 x 24 V      | ---                                 | ---             | ---                |
| I/O module 7740 | ---            | ---                                 | 10 x relay      | ---                |
| I/O module 7741 | ---            | 10 x PT100/PT1000                   | ---             | 6 x 0 ... 10 V     |

## Application sample with HAKKO touch panel

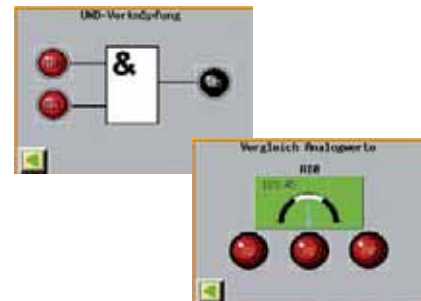


## Intelligent I/O systems: Fieldbus modules from esco simply combined with touch panels from HAKKO

Fieldbus modules from esco offer the easy way to implement basic PLC functionality. The V-SFT programming software is a comfortable tool for programming and visualization of the functions on a HAKKO touch panel.



Easy to do: programming of basic PLC functions using the macro commands of the V-SFT programming software.



Visualization of the functional blocks as well as input and output data on the touch panel. Logging data may be stored on a CF memory card which can be installed in the HAKKO touch panel.

- Addressing with original Modbus registers
- Parity and baud rate selectable from 9600 bit/s up to 38400 bit/s
- Log data can be stored on a CF memory card in the touch panel
- Easy implementation of basic PLC functions



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