

# SFAR-S-ETH

SFAR-S-ETH module is a **Modbus TCP to Modbus RTU/ASCII gateway**. The device has the **Ethernet and RS485** interface, **4x DI** (Digital Inputs) with counters and **3x RO** (Relay Outputs). All inputs and outputs are isolated from RS485 and power supply with use of optical isolators. The communication takes place with the benefit of Modbus TCP protocol. The use of **32-bit ARM** core processor provides fast processing and communication with the baud rate from **2400 to 115200 bps**. The device is equipped with a set of **LEDs** used to indicate the status of inputs, outputs, power supply and RS485 communication. This feature is useful for diagnostic purposes and helping to find errors.

Built-in mini **USB** allows for initial configuration of the unit without power supply.

To simplify installation the modules have been equipped with **Quick Connector** system. Using dedicated **SFAR-S-LINK** cable allows to connect up to 15 modules which provide both RS485 communication and power supply.

## Key Features

- Modbus TCP to RS485 Gateway
- Configuration through web browser
- 1x ETH interface
- 1x RS485 interface
- 4x Digital Input with counters
- 3x Relay Output
- Watchdog function for outputs
- Built-in LEDs for device status indication
- Modbus RTU/ASCII communication
- Baud rate: 2400 bps to 115200 bps
- Up to 128 modules on the bus
- Built-in mini USB type B port for configuration
- Fast and easy connection with SFAR-S-LINK
- Space-saving housing, DIN rail mount



# SFAR-S-ETH

## Specification

### Digital Inputs (DI)

- Input type: PNP or NPN
- Fast pulse counter up to 1 kHz

### Relay Outputs (RO)

- Relay Output (NO) max. 3 A @ 30 V DC, 3 A @ 230 V AC

### Platform

- ARM Cortex-M3

### Communication

- Interface RS485 half-duplex
- Up to 128 devices on the bus
- Protocol: Modbus RTU/ASCII
- Baud rate: 2400 to 115200 bps
- Interface mini USB type B

### Power supply

- 12-24 V DC  $\pm 20\%$

### Housing

- Dimension WxHxD: 22.7x110.8x119.1 mm (0.894x4.362x4.689 in)
- Construction: UL approved, self-extinguishing plastic (PC/ABS)
- DIN rail mounting DIN (DIN EN 50022 norm)
- Cooling: internal air circulation

### Environment

- Operating temperature: -10°C to 50°C (14°F to 122°F)
- Storage temperature: -40°C to 85°C (-40°F to 185°F)
- Relative humidity: 5% to 95%, no condensation
- Ingress Protection Rating: IP40 – for indoor installation

## Dimensions

