SfAR-S-16DO

SfAR-S-16DO gives users the possibility to send multiple signals to multiple devices, for example, to start/stop or alarm reset commands for pumps.

The module has 16 **digital outputs** (DO). Digital outputs are **PNP** transistor outputs, sending voltage signals. All outputs are isolated from the logic with optoisolators.

A built-in **RS485** interface allows easy connection over the **Modbus RTU/ASCII** protocol. A 32-bit ARM core processor provides fast processing and communication.

The module is equipped with a set of **LEDs** used to indicate the status of I/O, power supply, and RS485 communication.

Configuration of the modules is carried out with our free software, the **SfAR Configurator**. A built-in mini **USB** allows performing a primary configuration of the unit without an additional power supply.

The modules have been equipped with the **Quick Connector** system to simplify installation. Using a dedicated SfAR-S-LINK cable allows connecting of up to 10 modules, which provide both RS485 communication and external power supply.

Key Features

- 16 opto-isolated digital outputs
- Every DO is protected against inductive load with a built-in diode
- Watchdog function
- 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
- Space-saving housing, DIN rail mount
- DIP switch for configuration
- Quick Connector for grouping modules and providing power and communication

SfAR-S-16DO

Specification

Digital Outputs (DO)

- PNP transistor output, max. 500 mA, 30 V DC
- Opto-isolated from RS485 and power supply

Platform

- ARM Cortex-M3

Communication

- RS485 interface
- Up to 128 devices on the bus
- Modbus RTU/ASCII
- Baud rate: 2400 to 115200 bps
- Mini USB type B
- Quick Connector system
- Built-in LED indicators
- Free software: SfAR Configurator

Power Supply

10-38 V DC; 10-28 V AC

Housing

- Dimensions WxHxD: 22,7x110,9x119,1 mm (0.894x4.366x4.689 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