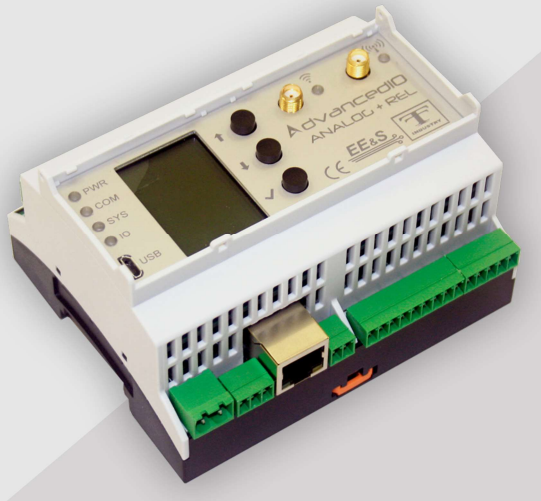
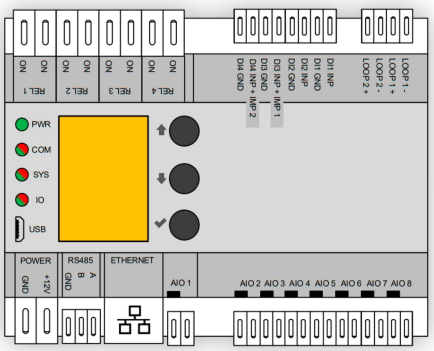
Advanced IO Analog + Rel

- 4 x relay
- 4 x digital input
- 8 x analog input/output
- 2 x current output (current loop)
- Integrated Modbus communication
- WiFi
- Radio module (optional)
- Diagnostic/information display
- Ability to mount on DIN rail



DESCRIPTION

AdvancedIO Analog + Rel is a compact device intended for automatization, measurement and regulation.
AdvancedIO Analog + Rel includes eight analog inputs/outputs that can be used for temperature measurement (Nix, PTx), voltage (0-10V) and current (0-30mA) measurement. The output voltage setting (0-10V) allows the management of external modules. Advanced IO Analog + Rel includes 2 current outputs (current loops) (0 - 20 mA). The device also includes four digital inputs that can be used for connecting sensors with digital output. Two of the digital inputs include an impulse counting function and can be used to connect measuring devices with impulse output.
AdvancedIO Analog + Rel includes four relays with a maximum switching current 5 A and voltage 250 VAC. They can be used for switching electronic devices.
The whole device can be a part of the Industry 4.0 platform and is controlled through a serial interface RS485 using the industrial communication protocol Modbus/RTU, or through ethernet interface using the industrial communication protocol Modbus/TCP. The integrated display with buttons allows for control of the individual outputs manually, as well as monitoring the state of the inputs/outputs in real-time.
In case a wireless solution is needed, the communication can be executed through Wifi, or one of many radio modules in our selection (434 MHz, 868 MHz, Sigfox, NB-IoT, 3G/GSM, LoRaWAN).
The device can be easily mounted on a DIN rail.



SPECIFICATION

Communication interface	1x Ethernet 1x WiFi 1x RS485
IO interface	8x analog inputs or outputs 0-10 V/0-30 mA 2x digital input 9-48 VDC 2x digital input 9-48 VDC with option to be configured as impulse type S0 (or similar) 4x relay output 250 VAC/5 A 2x current output 0 - 20 mA
Communication protocols	Modbus/RTU slave Modbus/TCP slave HTTP API (optional)
Optional radio modules	868/434 MHz, Sigfox, LoRaWAN, NB-IoT, 3G/GSM
Temperature range	-20 to +50 °C
Power supply voltage	24 VDC
Power consumption	max. 2 W (without radio module)
Dimensions	108 x 90 x 63 mm
Mount	DIN rail

TYPICAL APPLICATION

- Telemetry/remote control
- Industry 4.0