



- ANALOG/DIGITAL SIGNALS
- OUTPUTS FOR RELAY CONTROL
- ETHERNET/WIFI CONNECTION
- MQTT PROTOCOL WITH TLS
- MODBUS-TCP/UDP

ReSENSE IO devices allow connecting any analog sensor with voltage, resistance, or current output, or sensors with pulse output. ReSENSE IO offers 6 fully programmable inputs/outputs and in the PRO version, all 6 inputs/outputs are galvanically isolated along with the power supply (suitable for parallel measurement to a PLC).



TECHNICAL SPECIFICATION

6 PROGRAMMABLE INPUTS/OUTPUTS (IO PRO - GALVANICALLY ISOLATED)

Resolution, accuracy and sampling	16-bit resolution, up to 3000 SPS on each input, accuracy $<\pm 0.5\%$
Voltage	0-24V / $\pm 0-24V$ (IO PRO)
Current loop	0-20mA / $\pm 0-20mA$ (IO PRO)
Pulses	0.1-1500Hz (configurable levels, pulse counter)
Temperature sensors	NTC & PT1000 thermistors
Output control	load switching up to 50mA by transistor
Sensor power supply	IO - on each port voltage same as power supply up to 200mA IO PRO - on each port 12V/80mA galvanically isolated

POWER SUPPLY

Type	external source/passive PoE
Voltage	9-24V
Consumption	max. 2W (5W) depending on sensor consumption
Protection	against reverse polarity

COMMUNICATION

WiFi	2.4GHz 802.11 b/g/n WEP/WPA-TKIP/WPA2-CCMP/WPA3-PSK 2 dBi antenna, magnetic mount, 3m cable
Ethernet	10/100 Base-TX Auto MDI/MDI-X Passive PoE
Protocol	MQTT TLS/SSL + Modbus-TCP/UDP

ENCLOSURE AND ENVIRONMENTAL

Material, dimensions and protection	ABS, 72x109x74mm, IP20
Terminals and mounting	screw terminals 0.5-1.5mm ² (28-16 AWG), DIN rail mounting
Operating (storage) conditions	-25 °C ~ +75 °C (-30 °C ~ +80 °C) 10 ~ 90% RH, non-condensing