



46 SERIES DATASHEET

SINGLE OR DOUBLE PARAMETER CONTROLLER



ANALYZERS & SAMPLERS



LEVEL, FLOW & PRESSURE



WEB APP & DATALOGGING





MAIN FEATURES

- Graphic display and keypad 128 x 128 pixel monochrome display with graphic icons to show digital output status, washing cycle and alarms with three-colour backlight.
 Simultaneous flashing values for the measurement (numeric + paragraph) and temperature readings.
- Five control keys for instrument calibration and configuration
- Data Logger with 260,000 records downloadable by accessing the internal web server with Wi-Fi connection
- Enclosure Box
 - o Wall mounting ABS plastic material IP65 full box (144x144x122)
 - Panel mounting ABS IP65 front panel only (96x96x42)
- All outputs Relay, SSR and Output mA are configurable with primary and secondary measure

MEASURES

- pH / ORP (redox)
- Conductivity
- Chlorine
- Chlorine dioxide
- Ozone
- Hydrogen peroxide
- Peracetic acid
- Chlorites Bromine
- Dissolved oxygen
- Turbidity
- Suspended solids



TECHNICAL DATA

PH: ± 0.01 pH ORP: ±1 mV ORP: ±1 mV ORP: ±1 mV Conductivity: ±2% on the measuring point Input mA: ±0.2%	Measure Ranges	pH: $0.00-14.00$ / ORP: -2000 mV -2000 mV; Conductivity: with C 0.01 cm ⁻¹ / K 100 sensor: 0.005 μS/cm to 200 μS/cm (5 K Ω x cm to 200 M Ω x cm) with C 0.10 cm ⁻¹ / K 10 sensor: 0.05 μS/cm to 2 mS/cm (500Ω x cm to 20 M Ω x cm) with C 0.20 cm ⁻¹ / K 10 sensor: 0.1 μS/cm to 10 μS/cm (10 μS/cm to 10 μΩ x cm) with C 1.00 cm ⁻¹ / K 10 sensor: 10 μS/cm to 10 μS/cm (10 μS/cm to 10 μC x cm to 10 μC x cm) with C 10.0 cm ⁻¹ / K 10 μS sensor: 10 μS/cm to 10 μS/cm (10 μS/cm to 10 μS/cm to 10 μS/cm to 10 μC x cm to 10 μC x cm) with C 10 μC y cm ⁻¹ / K 10 μS sensor: 10 μS/cm to 10 μS/cm (10 μS/cm to 10 μS/cm to 10 μS/cm to 10 μC x cm to 10 μC x cm) Input mA: Depending by the type of sensor
Display Graphic TFT colour LCD Resolution 128 x 128 pixels or 240x128 pixels Languages Italian, English, French, German, Spanish Keypad 5 bubble-keys Data Logger 260000 records, minimum interval 1 min, data download via Wi-Fi Two (2) programmable; 4 20 mA; Galvanic separation; Maximum load 800 Ohm NAMUR; OFF, 3,6 mA, 22 mA Digital Outputs Four (4): Two set points and two Alarms Set points; RL1 and RL2 2-SPST mechanical 250 VAC/5A, 30 VDC/3 A; RL1 and RL2 relay configuration Load activation, RL3 and RL4 relay configuration Load activation, Probe washing, Alarm repetition. Setting Cycle time and Delay time Two (2) SSR1 -SSSR2 -SPST 60 VAC, max 100 mA, Bidirectional, NPN, PNP Resistance in ON state 5 ohm @ 100mA Frequency output REED digital input Input for dry contact 5 VDC, max 6 mA Communication port RS485 modbus server ASCII / RTU standard protocol Output 24VdC 24VdC ± 5% max 250mA Operating conditions Operating temperature - 10÷50°C Storage and transport -25÷65°C Humidity 10-95% (non-condensing) Universal power supply 100-240 Vac 50/60 Hz Low voltage power supply 24-48 Vdc or 24 Vac CE compliant - Transformer isolation4kV - Absorbing average 3.6A - Electrical Protections Mechanical protections Mechanical protections Vall mounting: IP65	Measure Accuracy	pH: \pm 0,01 pH ORP: \pm 1 mV Conductivity: \pm 2% on the measuring point
Resolution 128 x 128 pixels or 240x128 pixels	Temperature Input	Pt100/Pt1000 Automatic Recognition
Languages Italian, English, French, German, Spanish Keypad 5 bubble-keys Data Logger 260000 records, minimum interval 1 min, data download via Wi-Fi Two (2) programmable; 420 mA; Galvanic separation; Maximum load 800 Ohm NAMUR; OFF, 3,6 mA, 22 mA Digital Outputs Four (4): Two set points and two Alarms Set points: RL1 and RL2 2-SPST mechanical 250 VAC/5A, 30 VDC/3 A; RL1 and RL2 relay configuration Load activation, RL3 and RL4 relay configuration Load activation, Probe washing, Alarm repetition. Setting Cycle time and Delay time Two (2) SSR1 - SSR2 2-SPST 60 VAC, max 100 mA, Bidirectional, NPN, PNP Resistance in ON state 5 ohm @ 100mA Frequency range 0 to 400 pulses/min Pulse Duration 100 ms Digital Input REED digital input Input for dry contact 5 VDC, max 6 mA Communication port RS485 modbus server ASCII / RTU standard protocol Output 24VdC 24VdC ± 5% max 250mA Operating temperature -10÷50°C Storage and transport -25÷65°C Humidity 10-95% (non-condensing) Universal power supply 100-240 Vac 50/60 Hz Low voltage power supply 24-48 Vdc or 24 Vac CE compliant Power supply/ Electrical protections Mechanical protections Wall mounting: IP65 Wall mounting: IP65	Display	Graphic TFT colour LCD
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24 Vac CE compliant Power supply/ Electrical protections — Absorbing average 3.6A — Electrical Protection: EMI / RFI CEI-EN55011 — 05/99 — According to UL, not connect to relay outputs a voltage exceeding 115V Wall mounting: IP65	Operating conditions	Storage and transport -25÷65°C
Wall mounting: IP65		24 Vac CE compliant – Transformer isolation4KV – Absorbing average 3.6A – Electrical Protection: EMI / RFI CEI-EN55011 – 05/99
	Mechanical protections	



DIMENSIONS

144 mm (5.67 in)



