Chemitec
WATER MONITORING SOLUTIONS

SENSORS & CONTROLLERS

ANALYZERS & SAMPLERS

LEVEL, FLOW & PRESSURE

WEB APP & DATALOGGING

ACCESSORIES

46 SERIES DATASHEET
SINGLE OR DOUBLE PARAMETER CONTROLLER

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
    - 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
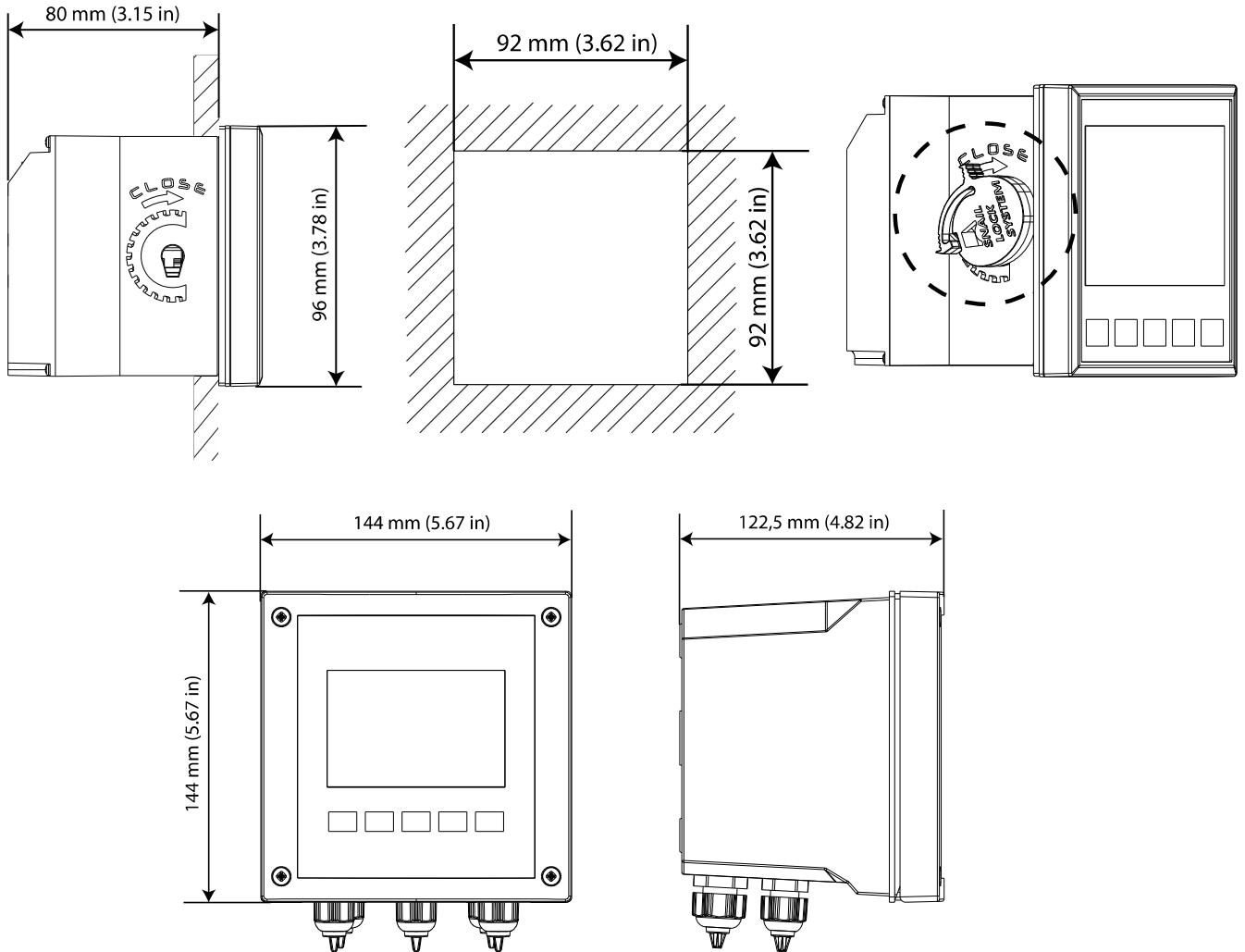- Dissolved oxygen
- Turbidity
- Suspended solids

TECHNICAL DATA

Measure Ranges	**pH:** 0.00 – 14.00 / **ORP:** -2000mV – 2000mV; **Conductivity:** with C 0.01 cm^{-1} / K 100 sensor: 0.005µS/cm to 200µS/cm (5KΩ x cm to 200MΩ x cm) with C 0.10 cm^{-1} / K 10 sensor: 0.05µS/cm to 2mS/cm (500Ω x cm to 20MΩ x cm) with C 0.20 cm^{-1} / K 5 sensor: 0.1µS/cm to 4mS/cm (250Ω x cm to 10MΩ x cm) with C 1.00 cm^{-1} / K 1 sensor: 0.5µS/cm to 20mS/cm (50Ω x cm to 2MΩ x cm) with C 10.0 cm^{-1} / K 0.1 sensor: 5µS/cm to 200mS/cm (5Ω x cm to 200KΩ x cm) with C 20.0 cm^{-1} / K 0.5 sensor: 10µS/cm to 400mS/cm (2,5Ω x cm to 100KΩ x cm) **Input mA:** Depending by the type of sensor Sensor power supply 4/20mA 2 or 4 wires (*)18Vdc ±5%, max 30mA
Measure Accuracy	pH: ± 0,01 pH ORP: ±1 mV Conductivity: ± 2% on the measuring point Input mA: ± 0.2%
Temperature Input	Pt100/Pt1000 Automatic Recognition
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
Analogue outputs	Two (2) programmable; 0/4…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 point (2)	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
Frequency output	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 conditions	Operating temperature -10÷50°C Storage and transport -25÷65°C Humidity 10-95% (non-condensing)
Power supply/ Electrical protections	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 Protection: EMI / RFI CEI-EN55011 – 05/99 – According to UL, not connect to relay outputs a voltage exceeding 115V
Mechanical protections	Wall mounting: IP65 Panel mounting: IP65 Front, IP20 Back

DIMENSIONS

MECHANICAL DIMENSIONS	96x96	144x144
Dimensions (W x H x D)	96 x 96 x 100 mm (3.78 x 3.78 x 3.93 in)	144 x 144 x 122.5 mm (5.67 x 5.67 x 4.82 in)
Fixing depth	130mm (5.12 in)	
Material	Red ABS "RED 65" CIELAB	
Mounting	Panel	Wall
Weight	0.61 Kg (1.34 lb)	1.05 Kg (2.02 lb)
Front Panel	UV Resistant Polycarbonate	