



SENSORS &  
CONTROLLERS



ANALYZERS  
& SAMPLERS



LEVEL, FLOW  
& PRESSURE



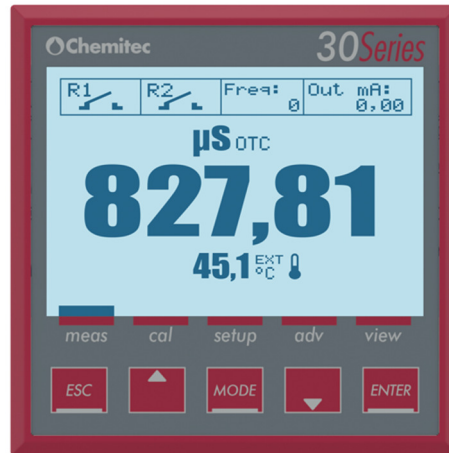
WEB APP &  
DATALOGGING



ACCESSORIES

# 30 SERIES DATASHEET

## SINGLE PARAMETER CONTROLLER



### MAIN FEATURES

- Graphic display 128 by 128 pixel resolution monochrome display with graphic icons to show digital output status, washing cycle, alarms menu
- Simultaneous flashing values for the measurement (numeric + bar graph) and temperature readings
- Five control keys for instrument calibration and configuration
- Enclosure Box
  - Wall mounting ABS plastic material IP65 full box (144x144x122)
  - Panel mounting ABS IP65 front panel only (96x96x42)

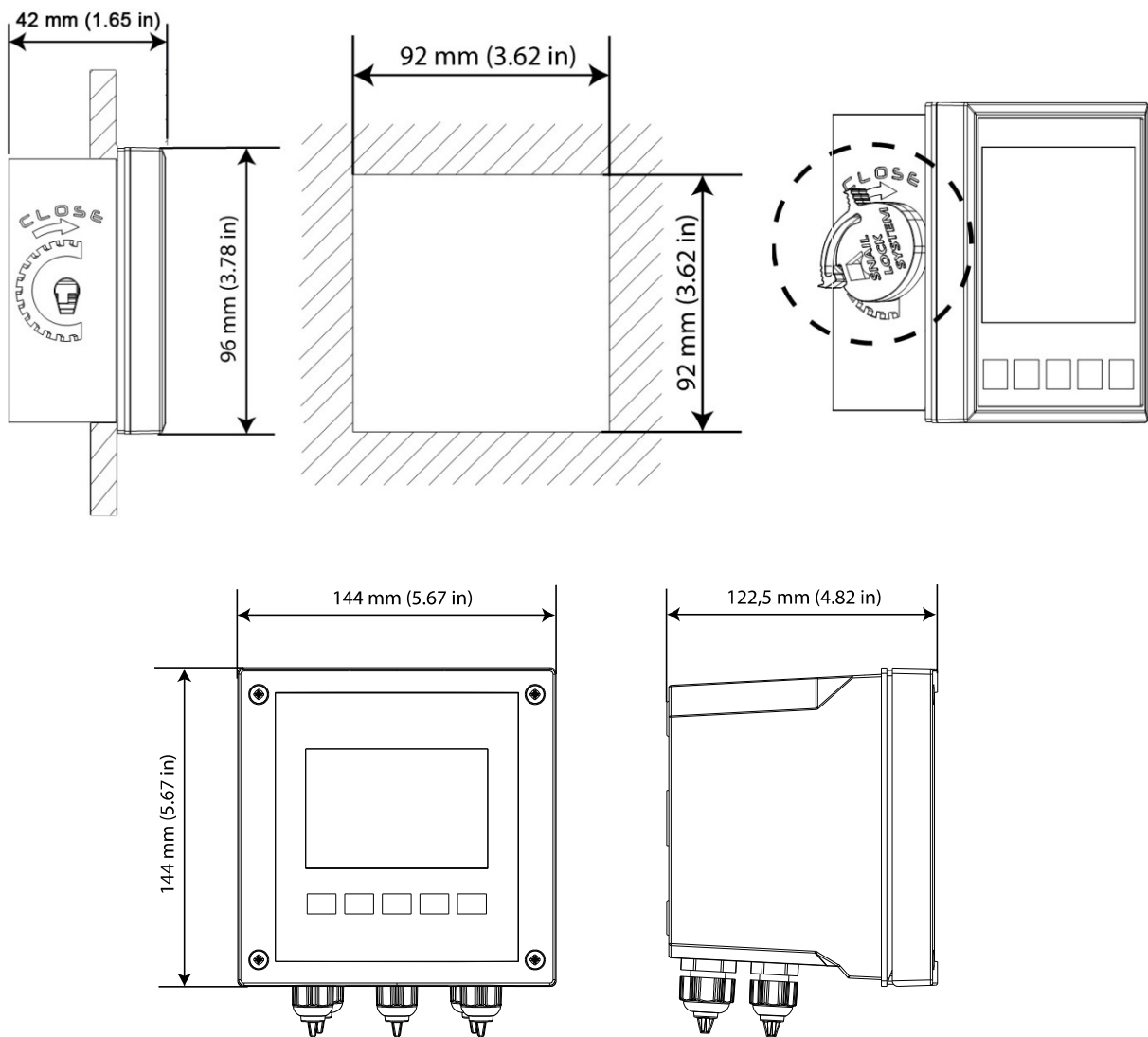
### MEASURES

- pH / ORP or
- Conductivity or
- Custom Measure for 4÷20mA input

## TECHNICAL DATA

Measure Ranges	<p><b>pH:</b> 0.00 – 14.00 / <b>ORP:</b> -2000mV – 2000mV;  <b>Conductivity:</b>  with C 0.01 cm<sup>-1</sup> / K 100 sensor: 0.005μS/cm to 200μS/cm (5KΩ x cm to 200MΩ x cm)  with C 0.10 cm<sup>-1</sup> / K 10 sensor: 0.05μS/cm to 2mS/cm (500Ω x cm to 20MΩ x cm)  with C 0.20 cm<sup>-1</sup> / K 5 sensor: 0.1μS/cm to 4mS/cm (250Ω x cm to 10MΩ x cm)  with C 1.00 cm<sup>-1</sup> / K 1 sensor: 0.5μS/cm to 20mS/cm (50Ω x cm to 2MΩ x cm)  with C 10.0 cm<sup>-1</sup> / K 0.1 sensor: 5μS/cm to 200mS/cm (5Ω x cm to 200KΩ x cm)  with C 20.0 cm<sup>-1</sup> / K 0.5 sensor: 10μS/cm to 400mS/cm (2,5Ω x cm to 100KΩ x cm)  <b>Input mA:</b>  from 0 to 20 mA or from 4 to 20 mA  Sensor Type Two or three wire sensor  Sensor power supply 4/20mA 2 wires (*) 18Vdc ±5%, max 30mA</p>
	<p><b>Measure Accuracy</b>  pH: ± 0,10 pH  ORP: 5 mV  Conductivity: ± 5% on the measuring point  Input mA: ± 50 μA</p>
Temperature Input	Pt100/Pt1000 Automatic Recognition
Max distance of the sensor	10 to 20 m (33 to 65 ft) depending on sensor
Display	Graphic TFT colour LCD
Resolution	128 x 128 pixels
Languages	Italian, English, French, German, Spanish
Keypad	5 bubble-keys [6] [5] single keys and [GRAPH/USB] [ESC/MODE] [ENTER/CAL] keys with double functions available
Analogue outputs	One (1) programmable ; 0/4...20 mA ; Galvanic separation ; Maximum load 500 Ohm NAMUR ; OFF, 3,6 mA, 22 mA
Digital Outputs	Three (3): Two set points and one frequency
Set point (2)	Set points: RL1 and RL2 2-SPST mechanical 250 VAC/5A, 30 VDC/3 A; RL1 relay configuration Load activation, RL2 relay configuration Load activation, Probe washing, Alarm repetition. Setting Cycle time and Delay time
Frequency output	SSR1 2-SPST 60 VAC, max 100 mA, Bidirectional, NPN, PNP Resistance in ON state 3 ohm @ 100mA Frequency range 0 to 400 pulses/min Pulse Duration 100 msec
Digital Input	REED digital input Input for dry contact 5 VDC, max 6 mA
Operating conditions	Operating temperature -10÷50°C Storage and transport -25÷65°C Humidity 10-95% (non-condensing)
Power supply/ Electrical protections	Power Supply 230Vac, 115Vac or 24Vac 50/60Hz – Transformer isolation 4KV – 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 42 mm (3.78 x 3.78 x 1.65 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	0.31 Kg (0,68 lb)	0.74 Kg (1.63 lb)
Front Panel	UV Resistant Polycarbonate	