SENSORS & CONTROLLERS

ANALYZERS & SAMPLERS

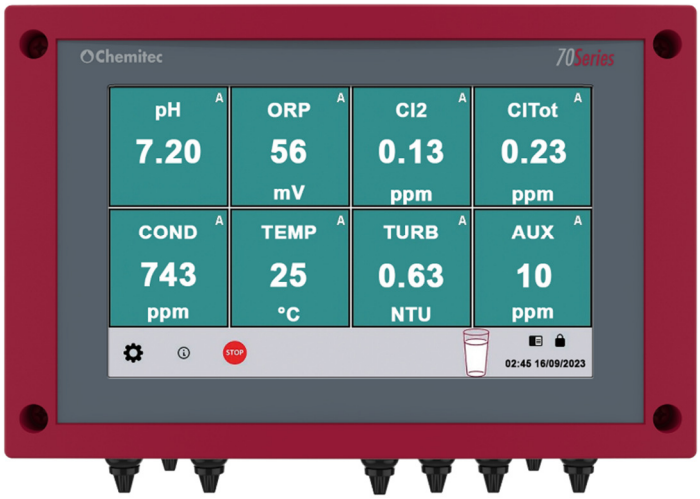
LEVEL, FLOW & PRESSURE

WEB APP & DATALOGGING

ACCESSORIES

70 SERIES DW DATASHEET

PLUG & PLAY CONTROLLER



The 70DW Series is a cutting-edge controller offering simultaneous display of as many of eight measurements for the monitoring and management of primary and drinking water plants.
The 70DW Series' intuitive interface simplifies measurement calibration and setting of dosing parameters and, in the absence of flow, a dedicated digital input immediately ceases dosing and sends a signal via an alarm relay.

MEASURES

- pH/ORP (analog electrodes)
- Conductivity (analog cell K=1)
- Turbidity (S461LT/TN)
- Free Chlorine (analog sensor)
- Total Chlorine (analog sensor)
- Temperature (PT100)
- Analogue input (4-20mA) freely programmable

MAIN FEATURES

- 7" RGB 800x480 colour display
- Displays up to 8 measurements simultaneously
- Readings saved in internal data logger
- Stored data downloadable via integrated Wi-Fi module or USB.
- Up to 8 mA outputs available for proportional dosing
- Modbus RS485 serial protocol
- 8 relays

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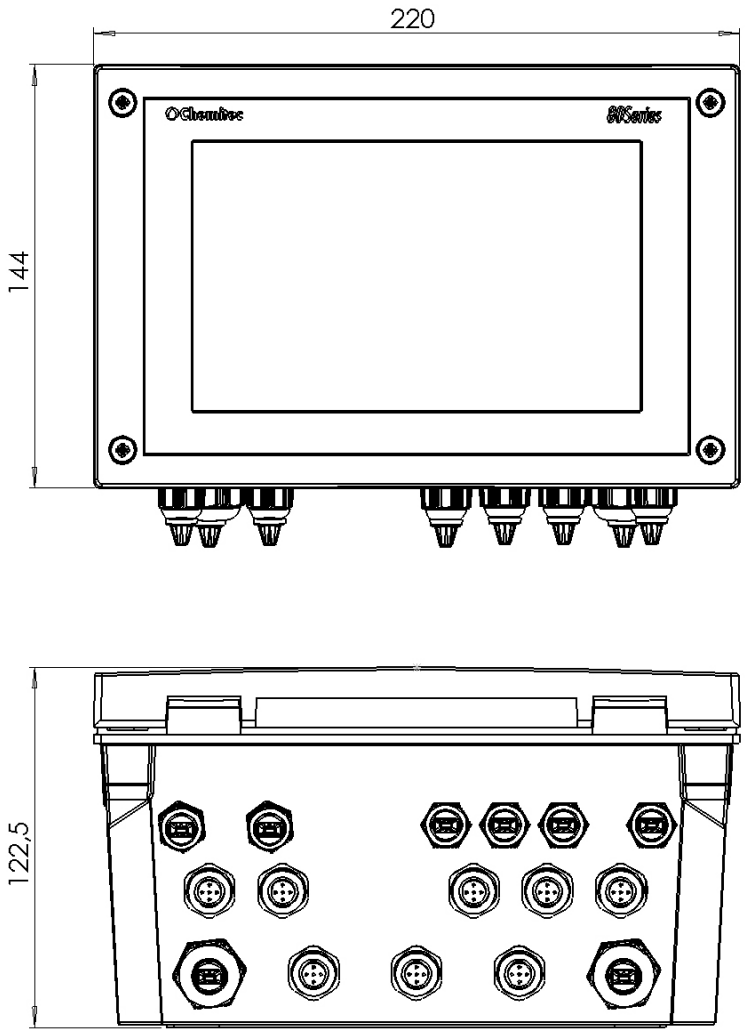
TECHNICAL DATA

Data storage	Internal Flash 64Mbit Memory 500000 record. Records interval: 01:00 ÷ 99:99 min Type: Circular (F.I.F.O.) or Filling Possibility of visualization of the stored data in tabular and graphic form, with indication of max, min and average values of the selected period. Zoom function
PID Regulation on mA outputs	Functions: P – PI – PID. Activated on the analogue or the digital output. Proportional range: 0 ÷ 500%
8 Analogue Outputs	freely programmable with possibility of PID management
8 command digital outputs	Set Point ON – OFF : working range setting (Hysteresys / direction) and pause/working time setting: 000 ÷ 999 Seconds PWM. Load max 1A 230Vac
Alarm digital output	Reporting: Instrumental anomalies, minimum, maximum, set point's delay, permanence time (live check) timed warning on probe calibrations and the possibility of displaying the data and time of the last calibration is provided. The instrument warns on the screen when a new calibration is due.
Digital output for Electrode washing or Temperature set point	Programming of the time leg Frequency: 00:00 ÷ 24:00 hh:mm minimum time leg: 15 min During the washing phase, all digital and analogue outputs are freezed
RS485 Serial output	For set-up and real-time data acquisition from remote or for stored data download (using a dedicate-SW). MODBUS RTU communication protocol
Manual controls	Possibility to simulate all the analogue and digital outputs using the touch
Visualization	7" TFT LCD graphic colour display 800x480 RGB with resistive touch 16:9
Programming	Touch Screen Data Input
Data Logger	Flash 64Mbit Memory (500000 records).
Wi-Fi	Wi-fi direct, for data record download
Languages	Italian, English, French, German, Spanish
Analogue Outputs	Eight (8) programmable; 0 / 4.00 ÷ 20.00 mA Galvanic separation: 1KV Optoisolator Maximum load 500 Ohm Second Alarm output: NAMUR 2.4 mA (with 4/20mA Range)
Digital Outputs	Digital Outputs: Eight (8); Exchange relays usable as NO; maximum resistive load 1A at 230Vac
Digital Input	Two (2) for dosage disabling or washing cycle activation Input voltage 24 Vdc /ac Absorption 10mA max
2 Analogue Input	4-20mA Analogue Input freely programmable
2 mV Input	For Ph or ORP analog electrode
1 Input	For analog PT100 or PT1000 Temperature sensor
1 Input	For analog Conductivity Probe
1 Usb port	For firmware upgrade or data download
Serial Output	RS485 with 1200÷38400 Baud Rate programmable speed MOD BUS RTU Protocol
Operating conditions	Operating temperature -10÷50°C Storage and transport -25÷65°C Humidity 10-95% (non-condensing)
Power supply/ Electrical protections	Power supply 90÷240Vac/dc 47- 63 Hz – Transformer isolation 4KV – Absorbing average < 20W – Electrical Protection: EMI / RFI CEI-EN55011 – 05/99

DIMENSIONS



Dimensions (L x H x P)	220 x 144 x 122,5 mm
Mounting thickness	122.5mm
Material	Red ABS “RED65” CIELAB
Mounting	Wall
Weight	1 Kg
Front Panel	UV Resistant Polycarbonate