

# PROCESS CONTROL INSTRUMENT



## Measures

pH/ORP  
Dissolved Oxygen  
Conductivity  
Turbidity  
Suspended Solids  
Chlorine  
Chlorine Dioxide  
Ozone  
Hydrogen Peroxide  
Peracetic Acid  
Chlorites  
Bromine

## 42Series

Developed by Chemitec for industrial applications, it is equipped with an output for proportional control, control functions of the probe conditions and other various outputs. The user has full control of the programming.

### User Interface (HMI)

**Programming keypad** with 5 bubble-keys for calibration and instrument configuration with:

- GRAPH key to display the stored data in tabular and graphic form.

**Monochromatic display 128 x 64 pixel** with graphic icons to display the status of the digital output, the recording data, the wash cycle and the alarm. Scrolling output values.

### Software & Functions

**Manual controls** thanks to the intuitive programming menu it is very easy to start and control the dosing system.

**Data Logger** of Circular (F.I.F.O.) or Filling type on an internal flash memory with a recording interval of 1 to 99 min. (about 16000 records).

**RS485 Serial Port** for set-up and remote real time acquisition or for downloading the stored data on a portable or desktop PC (using dedicated software), through MODBUS RTU communication protocol.

**USB Port** to download measurement data directly on a removable PEN DRIVE memory (on request).

**Analog Input** for perturbative functions (interactions between two parameters).

**Digital Input** for disabling of dosage or comand for washing from remote.

**Temperature compensation** through PT100 sensor with 3 or 4 wires, or PT 1000

## Hardware features, software features and functions 42Series

<b>PID Control</b>	Settable functions P ; PI and PID
Activation	On analog or digital output
Proportional Range	0 ÷ 500%
Time	Integral and/or derivative 0:00 ÷ 5:00 min
<b>Analog Outputs</b>	Two (2) programmable ; 4÷20mA galvanically isolated ; Output limits user programmable between measuring ranges
Output 1	programmable for measure
Output 2	programmable for measure / Temperature / PID Control
<b>Digital Outputs</b>	Four (4) ; Switching Relays usable as NO ; Maximum resistive load 3A at 230Vac
Set Point On – Off	Two (2) for each of the two measures ; working range setting (Hysteresis/direction) ; pause/working time setting 000 ÷ 999 Seconds ; PID Control ; Pulse Frequency or PWM
Alarm or Set Point for Temperature	One (1) programmable for: minimum/maximum value, set point delay, permanence time (live check) ; delay time 00:00 ÷ 59:99 mm:ss at minimum steps of 15 sec ; permanence time 00:00 ÷ 99:99 hh:mm ; Set Point disabling in case of alarm: Enable/Disable
Automatic sensor washing or Set Point for Temperature	One (1) to program the interval (minimum 15 minuts) and the duration from 00:00 ÷ 24:00 hh:mm; during the washing phase, the digital and analog outputs and the temperature are frozen
<b>Power supply</b>	100 ÷ 240 Vac/dc 50-60 Hz (optional 24 Vac/dc)
Power consumption	< 7W
Electrical protection	EMI / RFI CEI-EN55011 – 05/99
<b>Mounting</b>	Wall / Panel
Housing material	ABS Grey RAL 7045
Dimensions (L x H x P)	144 x 144 x 122.5 mm with a mounting depth of 122.5 mm
Mechanical protection	IP 66
Weight	1 Kg
<b>Mounting</b>	Panel
Housing material	ABS Black
Dimensions (L x H x P)	96 x 96 x 115.5 mm with a mounting depth of 130 mm
Mechanical protection	IP 54
Weight	0.7 Kg