

7615 Series

High quality

3 1/2 digit LED display

Automatic temperature compensation

0/20mA 4/20mA adjustable output

2 min/max control relays

Extractable terminal blocks

Isolated output as option

General informations

This series of controllers has been designed to carry out the measurement and the regulation of:

- pH
- O.R.P
- E. Conductivity
- Free Chlorine
- Temperature

in industrial processes, with continuous readings on digital indicators.

These instruments give both a valid, low cost measurement and regulation system for small industrial and ecological plants, and they can be used as 0/20 mA or 4/20 mA visualized transmitters for field applications.

Connections are made by means of two extractable terminal blocks on the rear side of the instrument, which allow easy cables connection and easy maintenance of the instrument.

The panel mounting instrument's enclosure is designed according to the DIN 43700 standards and it consists of a plastic case with metallic front panel coated with a polycarbonate membrane, to ensure the maximum anticorrosion characteristics.

A transparent splashproof front door can be added to the housing, in order to protect the unit from excessive moisture or corrosive fumes.

The package is supplied complete with fixing clamps for panel mounting.

Functional specifications

Display

The controller provides a digital readout on a 3 1/2 digit display that allows reading even at long distances.

Calibration

The zero and the sensitivity adjustment is done by means of trimmers mounted on the front panel.

Control relays

The controller features two on-off regulators.

Set-points are independent and their value is displayed by pushing a button on the front panel.

Relays activation is displayed on the front panel by their corresponding LEDs.



Analog output

Instruments provide a 0/20 mA analog output (4/20 mA, volt on request).

The 0/20 mA output may be adjusted to 4/20 mA by the operator.

Options

Functional features may be extended by following options:

091.203 0/5 s delay and selectable min/max relays function

091.311 4/20 mA output

091.362 isolated analog output

091.403 24Vac power supply

Technical Specifications

common to all instruments

Zero: adjustment: $\pm 15\%$

Slope adjustment: $\pm 20\%$

Output: 0/20 mA dc 300 ohm max.

Regulator hysteresis: $\pm 0,25\%$

Switching Time: < 0.5 s

Relay contacts: SPDT 5 A 220V resistive load

Temperature: 0/50 °C

Humidity: 95% without condensate

Voltage: 110/220V $\pm 10\%$ 50/60 Hz

Power: 3VA max.

Terminal blocks: extractable

Weight: 500 g

Size: 96 x 96 x 150 mm (1/4 DIN)

Technical specifications may change without notice

pH 7615

pH controller

Input signal comes directly from pH electrode.

The controller provides an Automatic Temperature Compensation with the Pt100 device.

Input: pH electrode (glass/Ref)

ATC: RTD Pt100

Scale: 0/14.00 pH

Input Current: < 2 pA

Input Impedance: > 1012 ohm

mV 7615

O.R.P. controller

Input signal comes directly from an O.R.P. combination electrode (Pt/Ref. - Au/Ref. - Ag/Ref. etc..)

Input: ORP electrode

Display scale: ±1500 mV

Regulators scale: 0/1000 mV

Input Current: <2 pA

Input Impedance: > 1012 ohm

C 7615

E. Conductivity controller

The instrument is provided with 3 inputs corresponding to 3 scales.

Automatic Temperature Compensation by means of an RTD Pt100 and scales up to 200 mS are available as options for OEM applications.

Input: from conductivity cell

Scales: 0/19.99 - 0/199.9 - 0/1999 µS

K adjustment: from 0 to 2 cm⁻¹

Frequency: selectable

TR 7615

Temperature controller

This instrument presents all the advantages of a precise and reliable measurement and regulation of temperature in industrial applications. It is suitable for use in fermentation plants.

Input: from thermoresistance Pt100

Scale: 0/199.9 °C

Resolution: 0.1 °C

Sensor connection: 3 wires