

# ORP300

## GRAPHICAL LCD ORP INDICATOR



### OVERVIEW

The ORP 100 series instruments are extremely rugged and versatile ORP indicators. The display units can be programmed to a user defined value based on a straight line equation or a 16 point lookup table. ORP 100 instruments use a special high input impedance input stage for fast and accurate ORP measurement. Special electronics ensure that the input impedance is in excess of 10<sup>12</sup> ohms. This ensures that there is minimum error due to the extremely high output impedance of the ORP sensors. All these instruments are field programmable and have nonvolatile backup memory that does not need cumbersome batteries. These instruments also have the capability to switch on relay(s) based on user settings.

Automatic calibration is provided for fast field calibration. Optional features include RS485 with MODBUS network capabilities. Optional 4-20mA output can be programmed between any desired range.

### FEATURES


- mV indication
- Field Programmable through four keys
- Very High Input Impedance (>10<sup>12</sup> Ohms)
- Warns against excess chlorine concentration.
- RO membrane
- 128 x 64 Graphical LCD
- 2 Programmable Set-points
- Relay Option
- Programmable 4-20mA output
- RS485 / MODBUS Network
- 96x96 Panel Mount Enclosure



## SPECIFICATIONS

|                       |   |
|-----------------------|---|
| <b>Model</b>          | <b>ORP300</b>   |
| Range                 | -1200mV to +1200mV  |
| Signal Type           | ORP Probe / mV Sensors  |
| Display               | 128 x 64 Graphical LCD  |
| No of Channels        | 1   |
| Output power          | Available on request  |
| Zero and Span         | -19999 to 19999   |
| Conversion Type       | mV indication, Linear Programmable variable, 16 Point lookup table conversion |
| Accuracy              | ± 0.5% of full scale  |
| Operating Temperature | 0 - 50° C   |
| Storage Temperature   | 0 - 60° C   |
| Relative Humidity     | 0 - 85% RH (non-condensing)   |
| Program Variables     | Saved in non-volatile EEPROM. No battery backup required                      |
| Voltage               | 220 V ~ AC ±15% / 110V AC / 24V DC (Factory configurable)                     |
| Frequency             | 50 / 60 Hz  |
| Power Consumption     | Less than 2 Watts   |



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