

## Oxygen Reduction Process Controller



### 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 1012 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.



### ADVANTAGES

- mV indication
- Field Programmable through four keys
- Very High Input Impedance (>1012 Ohms)
- Warns against excess chlorine concentration.  
RO membrane
- 4 1/2 digit LED display
- 2 Programmable Setpoints
- Relay Option
- Programmable 4-20mA output
- RS485 / MODBUS Network
- 96x96 Panel Mount Enclosure





## ORP 100 SPECIFICATIONS

|                       |   |
|-----------------------|---|
| Power supply          | 220 VAC $\pm$ 10 % / 110V AC / 24VDC (Factory settable only)              |
| Power                 | 2 Watt maximum  |
| Indication            | 5 digit LEDs with two mode indicating LEDs                                |
| No of Channels        | 1   |
| Signal Type           | ORP Probe / mV Sensors  |
| Measuring Range       | -1200mV to +1200mV  |
| Output Power          | Available on request  |
| Zero and Span         | -19999 to 19999   |
| Conversion Type       | 1. mV indication 2.Linear Programmable 3.16 Point lookup table conversion |
| Accuracy              | +/- 0.5% of full scale  |
| Operating Temperature | 0 – 50 °C   |
| Storage Temperature   | 0 – 60 °C   |
| Humidity              | 0 – 85% non condensing  |
| Program Variables     | Saved in non-volatile EEPROM. No battery backup necessary.                |