



## INTELLIGENT ORP ONLINE CONTROLLER

SPECIALLY DESIGNED TO MONITOR LIQUID OXIDATION REDUCTION POTENTIAL LEVEL THROUGH HIGH QUALITY ORP SENSOR



HIGH **ACCURACY**  
ONLINE **ORP(REDOX) DISPLAY**  
EASY **INSTALLATION**  
EASY **PARAMETERS SETUP**  
EASY **TO MONITOR**  
LESS **PIPING WORK**  
EASY **MAINTENANCE**

INFINITY introduce **ORP+ series** intelligent water quality analysis online **ORP+** controller with high quality **ORP** sensor along with their T type housing for accurate reading online.

The ORP sensor is normally supplied with  $\frac{3}{4}$ " **installation fitting with female threading.**

The sensor should be mounted **vertically in the line.**

The sensor shall be connected in the **sampling line** only as the **sensor body is not meant for the pressurized line.**

The fitting can be connected to the **sampling point by flexible tubing.**

**Chlorine and Ozone** are the most common disinfectants used in the **water and waste water** treatment industry.

**Oxidation-reduction potential (ORP)** is the parameter commonly used to measure **REDOX reactions** and is the only practical method we have to **electronically monitor** disinfectant effectiveness.

**ORP sensor** is the main part of the ORP Meter. It has two electrodes One reference and one measuring electrode enclosed in glass tubing. This is dipped into the line of which ORP is to be measured, it senses the ORP and sends a signal to the meter.

**ORP meter controller** is the unit that processes the information received from the sensor and displays Actual ORP in the line. This unit also controls the ORP by transmitting signals to dosing pumps, hooters, valves etc through inbuilt relays.

## ORP+ CONTROLLER SPECIFICATION

<b>Model</b>	INFINITY ORP+
<b>Description</b>	Online ORP Indicator + Controller
<b>Power Supply</b>	230 V AC 50 Hz
<b>Mounting</b>	Panel mount
<b>Overall Size</b>	96mm X 96 mm.
<b>ORP Range</b>	92mm X 92 mm.
<b>Aux output</b>	-1900 to +1900 mV.
<b>Accuracy</b>	Relay Control with further automation.
<b>Resolution</b>	1+/- 2 %
<b>Relay</b>	7 A / 230 V
<b>Display</b>	LCD red 7 segments
<b>Enclosure</b>	ABS plastic
<b>Calibration</b>	inside password protected setting
<b>Temperature</b>	0-60°C

## ADVANTAGES

**NABL/ERTL standard** sensor used

**Membrane switches** setting keys for easy setup

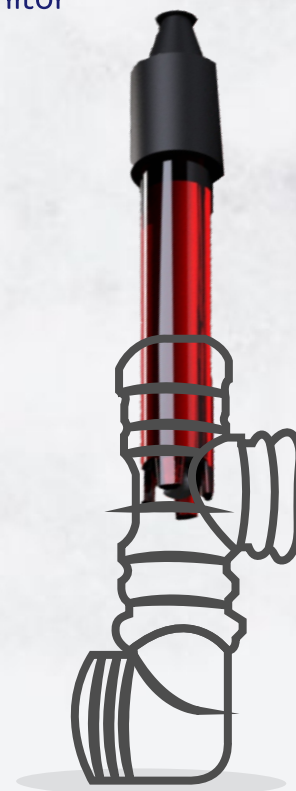
It can use directly with **chlorine dosing & ozone automation** with high and low **ORP(REDOX)** cutoff system.

**4 digits 7 segment display** along with relay status for easy to monitor

Individual **high and low set point relay** for further automation

## SENSOR SPECIFICATION

<b>Model</b>	ORP S/GL/O
<b>Type</b>	Flow through / tank (optional)
<b>Description</b>	To sense liquid Online REDOX(ORP)
<b>Sensor output</b>	Millivolt
<b>Electrode MOC</b>	glass bulb with epoxy body*
<b>Connection</b>	¾" & ½" BSP
<b>Cable</b>	1 core shielded
<b>Cable length</b>	3 meter
<b>Max temp.</b>	0-60° C
<b>Max pressure</b>	3 bar
<b>Installation</b>	at sampling line
<b>Dimensions</b>	140mm x 32mm



## APPLICATIONS



MINRAL WATER PLANTS



BEVERAGE INDUSTRY



LIQUID WASTE MANAGEMENT



PHARMA & CHEMICAL



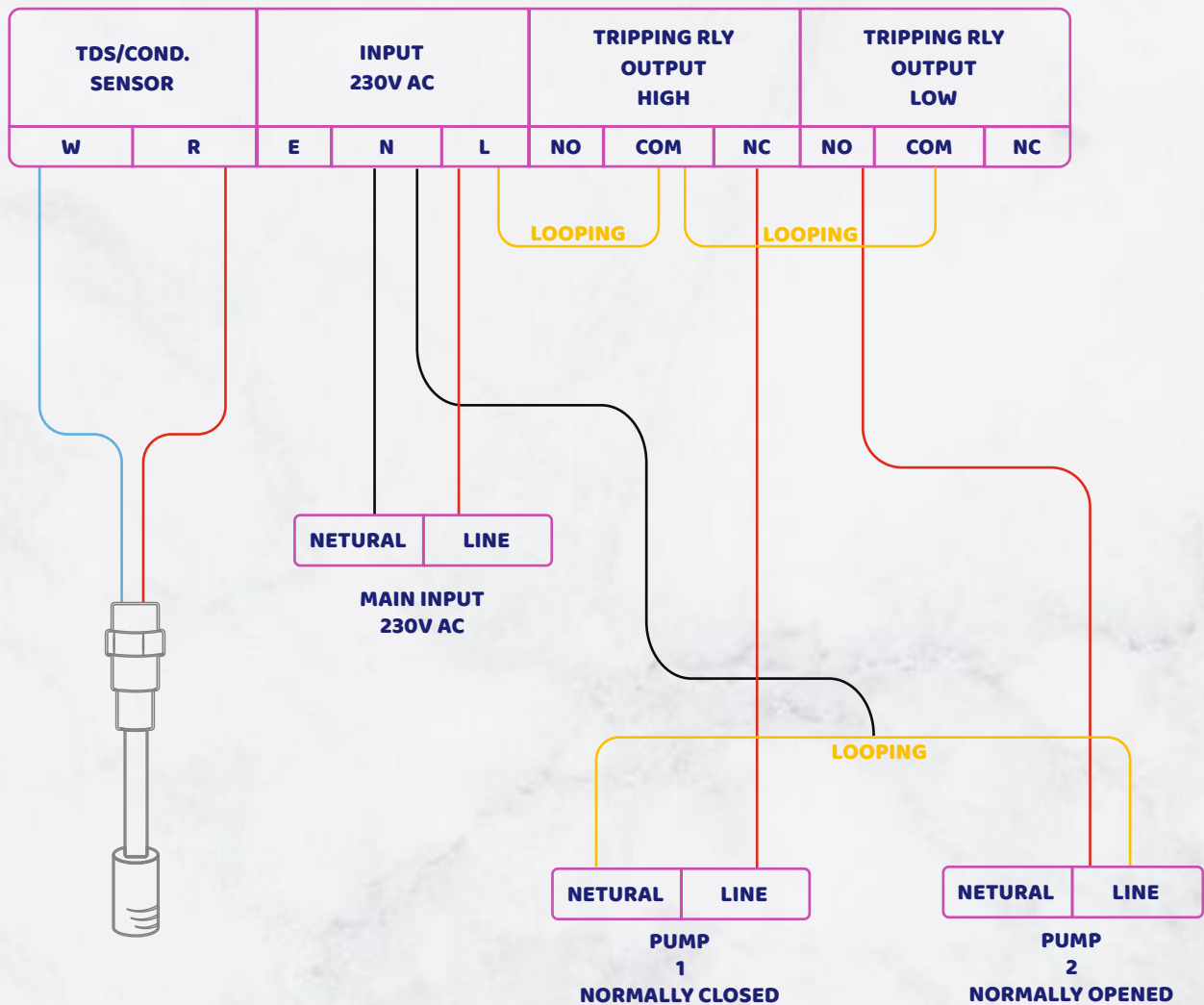
PULP & PAPER INDUSTRY



SWIMMING POOL

# WIRING DIAGRAM

## HIGH & LOW ORP LEVEL AUTOMATION



## MOUNTION POSITION OF ORP SENSOR

