pH/ORP METER



pH is the measure of the hydrogen ion concentration in a liquid. pH measures the acidity or alkalinity of a liquid. The pH scale is logarithmic and runs from 0.0 to 14.0 with 7.0 being neutral. Readings less than 7.0 indicate acidic solutions, while higher readings indicate alkaline or base solutions.

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.





PO 650 pH/ORP with LCD

WHY CHOOSE THIS METER

- TRACEABILITY to NABI / FRTI standards
- PUSH BUTTON FRONT KEYS for easy set up
- INDIVIDUAL HIGH & LOW SET POINT RELAY for alarm or signal to PLC or can be used for proportional acid/alkali dosing
- PROGRAMMABLE CONTROL DELAY TIME TO PREVENT CHATTERING
- HYSTERISIS TO PREVENT RELAY CHATTERING

 Hysterisis is the percentage of set point below which relay will reset after getting energized
- IN-BUILT DIAGNOSTICS for wrong calibration or sensor error
- IN-BUILT ALARM ANNUNCIATOR

 It's a facility to acknowledge high/low fault condition and reset relays by pressing the acknowledge key
- MANUAL/AUTOMATIC relay option modes

ADVANCED OPTIONS AVAILABLE:

- AUTOMATIC TEMPERATURE COMPENSATION
- **DUAL LINE BACKLIT LCD** which displays temperature and pH/ORP along with relay status
- RS 485 for online monitoring/ data logging
- ISOLATED 4-20 mA OUTPUT with normal/inverse function and in-built current simulator

APPLICATIONS

Mineral Water Plants



Beverage Industry



Liquid Waste Management



Pharma & Chemical



Pulp & Paper Industry



Swimming Pool



METERS



PO 650 pH

Range: 0 to 14 Resolution:0.01



PO 650

Physical dimensions Cut-out size Enclosure Mounting Input supply Alarms Control operation Accuracy Calibration/set point 105 x 105 x 130mm 92 x 92mm ABS weather proof IP- 65 Field/ Pipe/ Panel 230 V A.C./110 V A.C./ 24 V D.C. Separate LED indication for high & low Alarm/ auto reset/ control ± 2% FSD Using front keypad

Display 4 digit 7 segment LED display
Dual Line Backlit LCD(optional)

Output 4-20mA (optional) RS 485 (optional)

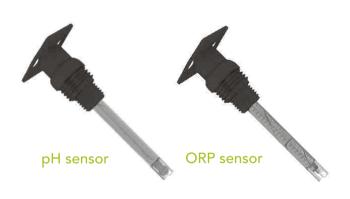
Relay Individual high & low relay 5A@ 230V (programmable through entire range with set-able control delay & hyteresis)



PO 650 ORP

Range: -1900 to +1900 Resolution: 1

SENSORS



Overall Dimensions Type Sensor Output Electrode Material Process Connection Cable

Cable Termination

Max. Temperature

Installation

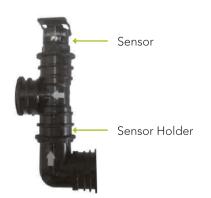
Sensor Holder

140mm (L) x 32mm (W)
Flow Through/Tank (optional)
Milli Volt
Glass bulb with epoxy body*
3/4" / 1/2"BSP M
1 Core Shielded 3 meter

0.75mm² lugs

0-60°C 0-100°C (with ATC) Sampling Line

MOC: ABS/Norryl with 3/4" BSPF end connections *Glass body for ATC Application





Sensor with Trichlor fitting



Sensor for wastewater & other special applications