

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.



WHY CHOOSE THIS METER

- **TRACEABILITY?** to NABL/ ERTL 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**
Hysteresis 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 reset options

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



Available with:

FILTRA CONSULTANTS AND ENGINEERS LTD.

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METERS



PO 650 pH

Range: 0 to 14
Resolution: 0.01



PO 650 ORP

Range: -1900 to +1900
Resolution: 1

PO 650

Physical dimensions	105 x 105 x 130mm
Cut-out size	90 x 90mm
Enclosure	ABS weather proof IP- 65
Mounting	Field/ Pipe/ Panel
Input supply	230 V A.C./110 V A.C./ 24 V D.C.
Alarms	Separate LED indication for high & low
Control operation	Alarm/ auto reset/ control
Accuracy	± 2% FSD
Calibration/set point	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 & hysteresis)

SENSORS

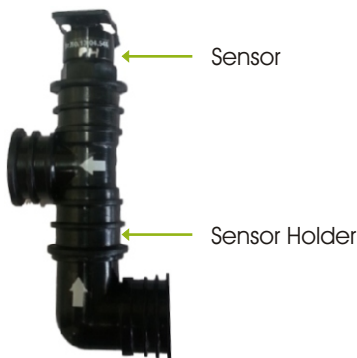


pH sensor



ORP sensor

Overall Dimensions	140mm (L) x 32mm (W)
Type	Flow Through/Tank (optional)
Sensor Output	Milli Volt
Electrode Material	Glass bulb with epoxy body*
Process Connection	3/4" / 1/2" BSP M
Cable	1 Core Shielded 3 meter
Cable Termination	0.75mm ² lugs
Max. Temperature	0-60°C 0-100°C (with ATC optional)
Installation	Sampling Line
Sensor Holder	MOC: ABS/Noryl with 3/4" BSPF end connections *Glass body for ATC Application



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