CONDUCTIVITY METER

SENSE MEASURE CONTROL

Conductivity measurements are used routinely in several industrial and environmental applications as a fast, inexpensive and reliable way of measuring ionic content in a solution. The measurement of product conductivity is a typical way to monitor and continuously trend the performance of water purification systems.
We at Embark, offer a full range of conductivity and TDS meters.

WHY CHOOSE US

- **TRACEABILITY** to NABL/ ERTL standards
- **AUTO-RANGING FACILITY**
  One single meter is suitable for an entire range of conductivity. Automatic shift in resolution based on conductivity value.
- **UNIQUE ENCLOSURE DESIGN**
  suitable for field as well as panel mount applications.
- **DUAL UNIT** same meter displays **µs** (micro seimen) and **ppm** (part per million)
- **EASY CALIBRATIONS** using front keys.
- **PASSWORD PROTECTION** for all settings.
- **WIDE RANGE**
  availability from high purity (.001µs/cm) resolution to high salinity upto 200 milli seimen.
- **IN BUILT ALARM** annunciator
- **PROGRAMMABLE CONTROL DELAY TIME**
- **HYSTERISIS TO PREVENT RELAY CHATTERING**
  Hysterisis is the percentage of set point below which relay will reset after getting energized.

ADVANCED OPTIONS AVAILABLE:

- **AUTOMATIC TEMPERATURE COMPENSATION**
  Conductivity has substantial dependence on temperature. It increases by 1.8- 2.2% for every degree rise in temperature. An inbuilt temperature sensor ensures that the displayed value is shown equivalent @ 25° C
- **DUAL LINE BACKLIT LCD**
  displays both conductivity and temperature simultaneously along with relay status
- **RS 485 OUTPUT** for online monitoring/logging
- **ISOLATED 4-20 mA OUTPUT**
  with normal/inverse function and inbuilt current simulator

APPLICATIONS

Water Treatment | Pharma & Chemical | Boiler | Power Plants | Bottling | Cooling Tower

FILTRA CONSULTANTS AND ENGINEERS LTD.
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METERS

CI 550

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./24V D.C.
Accuracy	± 2% FSD
Resolution	0.001/0.01/0.1/1 depending upon range
Display	4 digit LED display
Calibration	Using front keys
Measuring range	0-1999 (other ranges optional)
Display mode	Dual µs/cm or ppm
Output	4-20 mA (optional)

CT 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	In built buzzer with blinking LED for high conductivity indication
Relay	1 no for high (programmable through entire range with control delay & hysteresis) 5 A @ 230 V A.C.
Control operation	Alarm/auto reset
?Accuracy	± 2% FSD
Resolution	0.001/0.01/0.1/1 depending upon range
Display	4 digit LED display/ 16 X 2 alpha numeric Backlight LCD
Calibration/set point	Using front keys.
Measuring range	0-1999 (other ranges optional)
Display mode	Dual µs/cm or ppm
Output (optional)	4-20 mA / RS 485

CI/TI 350

Physical Dimensions	75 x 75 x 90mm
Cut-out size	68 x 68mm
Enclosure	ABS weather proof
Mounting	Panel
Input Supply	230 V A.C.
Accuracy	±2%
Resolution	0.01/0.1/1 depending on range
Display	4 digit LED display
Calibration	Using trim pots.
Ranges (µs/cm or ppm)	0 to 1000
Temperature	0-60°C

SENSORS

Trichlor K=1 K=0.1 K=0.01

All sensors also available in SS 316 Trichlor.

MOC	SS 316 & ABS
End Connections	¾" and ½" BSPM
Cell Constant	0.1/ 0.01/1.0
Cable	2 Core Shielded
Cable Length	3/5 meters
Mounting	Field
Max. Temperature	0-60 °C (optional 0-100° C with ATC)
Max. Operating Pressure	5 Kg/cm^2
Sensor Holder	¾" BSPF equal Tee MOC- ABS/ Noryl

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