

CONDUCTIVITY METER



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 Embarc, offer you a full range of conductivity and TDS meters.

Our professional competence — your personal confidence.



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 ($.001\mu\text{s}/\text{cm}^2$) resolution to high salinity upto 200 milli seimen.
- **IN BUILT ALARM** annunciator
- **PROGRAMMABLE CONTROL DELAY TIME**
- **HYSTERISIS TO PREVENT RELAY CHATTERING**
Hysteresis 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



METERS



CI 550

Physical dimensions	105 x 105 x 130mm
Cut-out size	92 x 92mm
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 $\mu\text{s}/\text{cm}^2$ or ppm
Output	4-20 mA (optional)



CT 650

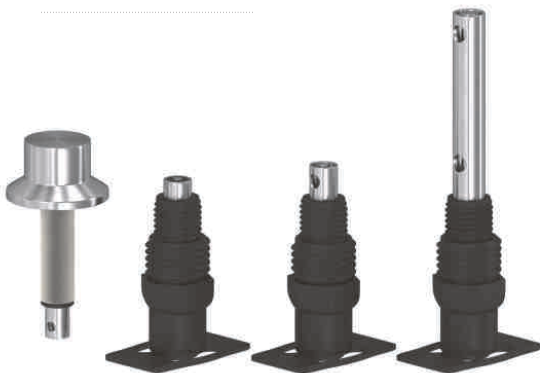
Physical dimensions	105 x 105 x 130mm
Cut-out size	92 x 92mm
Enclosure	ABS weather proof IP-65
Mounting	Field / Pipe / Panel
Input supply	230 V A.C./ 110 V A.C./ 24 V D.C.
Alarms	In built buzzer with blinking LED for high conductivity indication
Relay	1 no for high (programmable through entire range 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 $\mu\text{s}/\text{cm}^2$ or ppm
Output (optional)	4-20 mA / RS 485



CI 250

In-Built Supply	Battery Operated (9 V D.C.)
Enclosure	ABS weather proof
Calibration	Using trim pots.
Physical Dimensions	95 x 95 x 45mm
Temperature	0-60°C
Display	7 segment LCD display
Ranges $\mu\text{s}/\text{cm}^2$	0-4/ 0-40/ 0-500

SENSORS



Trichlor K=1 K=0.1 K=0.01

All sensors also available in SS 316 Trichlor.

MOC	SS 316 & ABS
End Connections	$\frac{3}{4}$ " and $\frac{1}{2}$ " BSPM
Cell Constant	0.1/ 0.01/1.0
Cable	2 Core Shielded
Cable Length	1/3/5 meters
Mounting	Field
Max. Temperature	0-60 °C (optional 0-100° C with ATC)
Max. Operating Pressure	5 Kg/cm ²
Sensor Holder	$\frac{3}{4}$ " BSPF equal Tee MOC- ABS/ Noryl