



# CT/TDS - TX - 22

## CONDUCTIVITY TRANSMITTER

### Features

- Suitable for normal drinking / raw water
- Built in Temperature Compensation
- Communication Output : RS485 (MODBUS RTU)
- Available with 0.01 / 0.1 / 1 Cell Constants
- Suitable for online conductivity / TDS measurement
- Cell With Transmitter
- System Accuracy +/-2% F. S.
- Output : 4 to 20 mA



### Description

**E**lectronet series CT / TDS TX 22 are Conductivity Transmitters designed for fast, easy and trouble free start up. These are ideal for measuring the concentration of dissolved solids in water. They are provided with an accurate pre-determined factory calibration constants. Rugged design and corrosion resistant material keep electrode spacing and surface area constant so cell constant remain stable for long period. Durability of material and high resistance to corrosion ensure the long life and require low maintenance.

### Technical Specifications

Cell Constant	0.01 / 0.1 / 1
Measuring Range	1) 2 to 100 $\mu\text{S/cm}$ for cell constant 0.01
	2) 20 to 1000 $\mu\text{S/cm}$ for cell constant 0.1
	3) 200 to 10000 $\mu\text{S/cm}$ for cell constant 1
System Accuracy	+/- 2% F. S.
Response Time	<10 mSec for 10 to 90% output change
Output	4 to 20 mA
Output Load	Max 600 $\Omega$
Power Supply	24V DC (+/- 10%), 24V DC Two Wire Loop Powered
Safe Operating Voltage	36V DC
Process Temperature Range	0 to 80°C
Ambient Conditions	0 to 55°C
Maximum Pressure	10 kg/cm <sup>2</sup>
Material of Construction Sensor	SS316
MOC Electronics Enclosure	Die Cast Aluminium PU Painted
Electrical Connection	DIN Standard Pluggable Connector
Sensor Cable Length	4 Meters
Electronic Protection Class	Weather Proof IP-67
Temperature Compensation	RTD PT-100
Insertion Length	Less than 150 mm
Mounting	Insertion
Weight	Less than 0.5 kg
Certification	CE

Ordering Information

Sample Order Code : A1 B1 E2 I1 K1 M2 N1

Parameter	Code	Description	Parameter	Code	Description
A	A1	Panel Mounting 96mm x 96mm	I	I1	RTD PT-100
	A2	Field Mounting (2" Pipe Mount)		IY	Other
B	B3	Conductivity (Cell Constant 0.01)		IX	NA
	B4	Conductivity (Cell Constant 0.1)	K	K1	4 to 20 mA
	B5	Conductivity (Cell Constant 1)		KX	NA
E	E2	24 V DC (+/-10%)	M	M1	1 Relay Output
	E5	24V DC Two Wire Loop Powered		M2	2 Relay Outputs
<p><b>Note :</b></p> <ul style="list-style-type: none"> <li>Due to our continuous product revisions, design specification and model numbers are subject to change without notice.</li> <li>Accuracy defined at Lab Conditions.</li> <li>For other requirement please consult factory.</li> </ul>				MX	NA
			N	N1	RS485 (MODBUS RTU)
NX	NA				

**ELECTRONET EQUIPMENTS PVT. LTD.**

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