



Pathfinder Instrument Model CT-1000 Conductivity Transmitter



DATA SHEET

Description

The Model CT-1000 (encapsulated miniature transmitter) is a 2-wire, 4-20 mA / 1-5 VDC conductivity transmitter featuring epoxy encapsulated construction, high performance and small physical size. This transmitter converts the Conductivity cell signal to a usable 4 to 20mA current/ 1-5 volt (using a 250 ohm resistor) signal proportional to the conductivity level. This Transmitter is a Loop Powered, 2 wire type device. Any D.C. power supply from 12 to 36V may be used. There are two adjustments “ZERO” and “SPAN” that are used for calibration. The output can be monitored or used as a process variable with a loop powered meter, recorder or PLC using a load resistor converting the 4-20mA to 1-5 volt DC signal. A Multi-Meter can also be used in series (milliamp range) for calibration and troubleshooting.

Features

- 2 wire 4-20mA loop powered Conductivity Transmitter
- Miniature size (1.5”x2.0”x1.0”)
- Encapsulated Construction
- Light Weight: 4 oz.
- Excellent Performance and at a low cost
- Customized Sensor matching and Full Scale Ranges for OEM application

Specifications

- Measuring Scale Ranges: 10uS to 75mS
- Probe Constant: K= 0.01, K=0.1, K=1.0, K=1.5, K=2.3, K=10
- Output: 4-20 mA
- Power Supply: 12 to 36VDC
- Load Resistor: 0-750Ω at 24VDC
- Linearity: +/- .02 PPM Units
- Operating Temperature Range: -25 to +70°C
- Reverse Polarity Protection: Internal Diode

CT-1000 -

PART SELECTION

Leave Blank for Standard Model
PT-Temperature Compensation (10KNT or 1KPtRTD)
MR - Multi Range

NOMINAL FULL SCALE RANGE

0 to (Insert Upper Range)

SPECIFY SCALE OF MEASUREMENT

μS - Microsiemen
PPM - Part Per Million
TDS - Total Dissolve Solids

SPECIFY "K" FACTOR

0.1
1.0
2.5
10.0

** Example: CT-1000 -PT-2000-PPM-1.0

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