

CT1000 and CT1000-Pt Loop-Powered Blind Contacting Conductivity Transmitter



Competitively priced

Easy-to-use & Compact Size

4-20mA loop-powered

Adjustable zero and span

Fully encapsulated

The model CT-1000 (encapsulated miniature transmitter) is a 2-wire, loop-powered, 4-20mA blind conductivity transmitter featuring encapsulated construction, high performance and compact size.

Connect a conductivity cell of $k=0.1$ or 1.0 to it to obtain a 4-20mA output that is proportional to the conductivity level. This output may be transmitted over 2 wires to a control location. The same 2 wires provide power to the transmitter. Any DC power supply from 12 to 36V DC may be used. There are two adjustments on the transmitter to standardize the conductivity output marked as "SPAN" and "ZERO". The output can be monitored with a loop-powered meter, a loop resistor or a multimeter during the standardization process.

The CT1000 requires a 10K NTC for temperature compensation and has a 3-wire sensor input.

The CT1000-Pt requires a Pt1000RTD for temperature compensation and has a 4-wire sensor input.

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Specifications

Measuring Range	0-50uS/cm (k=0.1), 5-500uS (k=0.1), 0-5000uS (k=1.0) or inquire for custom ranges
Linearity	+/- 2% of span
Dimensions	1.5"(38mm)W x 2.0"(51mm)L x 1.6"(41mm)H
Operating Temperature	-25 to 70 Degrees C
Temperature Compensation	0-50 Degrees C with 10K NTC (in electrode) for CT1000, 0-100 Degrees C with Pt1000RTD(in electrode) for CT1000
Output	4-20mA
Power Requirement	12-36V DC, 0-750 Ohm load resistor
Reverse Polarity Protection	Via Internal diode

Ordering Information

Part Number	Description
CT-1000	4-20mA loop-powered blind conductivity transmitter. Specify either 0-50uS(k=0.1) or 5-500uS (k=0.1) or 0-5000uS(k=1.0) range when ordering
971426	Graphite conductivity sensor k=0.1 for use with CT-1000 (0-50uS or 5-500uS range) -- Special wiring version of CS150TC-k=0.1
971084	Graphite conductivity sensor k=1.0 for use with CT-1000 (0-5000uS range) -- Special wiring version of CS150TC-K=1.0
CT1000-PT	4-20mA loop-powered blind conductivity transmitter for use with 4-wire Stainless conductivity sensors. with Pt1000 RTD. Specify either 0-50uS(k=0.1) or 5-500uS (k=0.1) or 0-5000uS(k=1.0) range when ordering

In-Line TEE Adapters (for Graphite conductivity sensors ONLY)

FC50P	1/2" NPT adapter
FC75P	3/4" NPT adapter

Calibration Solutions-Quarts

TDS1000	1000ppm/1417uS
TDS1500	1500ppm/2060uS
TDS3000	3000ppm/3900uS
TDS5687	5687ppm/7000uS
TDS9523	9523ppm/10000uS
TDS15000	15000ppm/16630uS
TDS30000	30000ppm/30100uS

Many other solutions are available. Contact Sensorex for a complete listing.



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