

CX100 Loop-Powered Contacting Conductivity Transmitter



Specifications

Conductivity Ranges:	R1: 0-19.99 $\mu\text{S/cm}$, 0.01 $\mu\text{S/cm}$ resolution R2: 0-199.9 $\mu\text{S/cm}$, 0.1 $\mu\text{S/cm}$ resolution R3: 0-1999 $\mu\text{S/cm}$, 1 $\mu\text{S/cm}$ resolution R4: 0-10.00 mS/cm , 0.01 mS/cm resolution R5: 0-19.99 mS/cm , 0.01 mS/cm resolution R6: 0-199.9 mS/cm , 0.1 mS/cm , resolution
Cell Constants	k=0.1, R1-R5 k=1.0, R1-R6 k= 10.0, R2-R6
Accuracy	$\pm 1\%$ of full scale reading in respective range
Temperature	0 °C to 100 °C (32 °F to 212 °F)
Temperature Resolution	0.1 °C (0.1 °F)
Relative Temperature Accuracy	± 0.5 °C (± 0.9 °F)
Sensor Pt100	(3 wire / 2 wire)
Temperature Compensation	Auto/Manual
Output	4.0-20.0mA (Galvanically isolated)
Cell Constant User-Selectable	(0.10 to 10.00)
Temperature Coefficient	0 to 10% (selectable)
Normalization Temperature	20.0 °C to 25 °C
Display	Dual Display Custom LCD
Power Requirements	12 to 24V DC, maximum 600 Ohm load
Dimension	96 x 96 x 66 mm (3.78 x 3.78 x 2.6 inch)
Weight	210 g
Certifications	CE

Parts covered by this product data sheet include:
CX100

Six selectable conductivity ranges for a wide range of measurements

Isolated Output prevents output interference caused by electrical noise or leakage from the input source

Out-of-range Output Current Indicator indicates an out-of-range measurement by emitting a 3.8mA output current

Hold Output Current Indicator to indicate 'HOLD' mode during calibration or set up mode.

Scaleable 4-20 mA Current Output

Primary and secondary display for simultaneous display of Conductivity and Temperature values

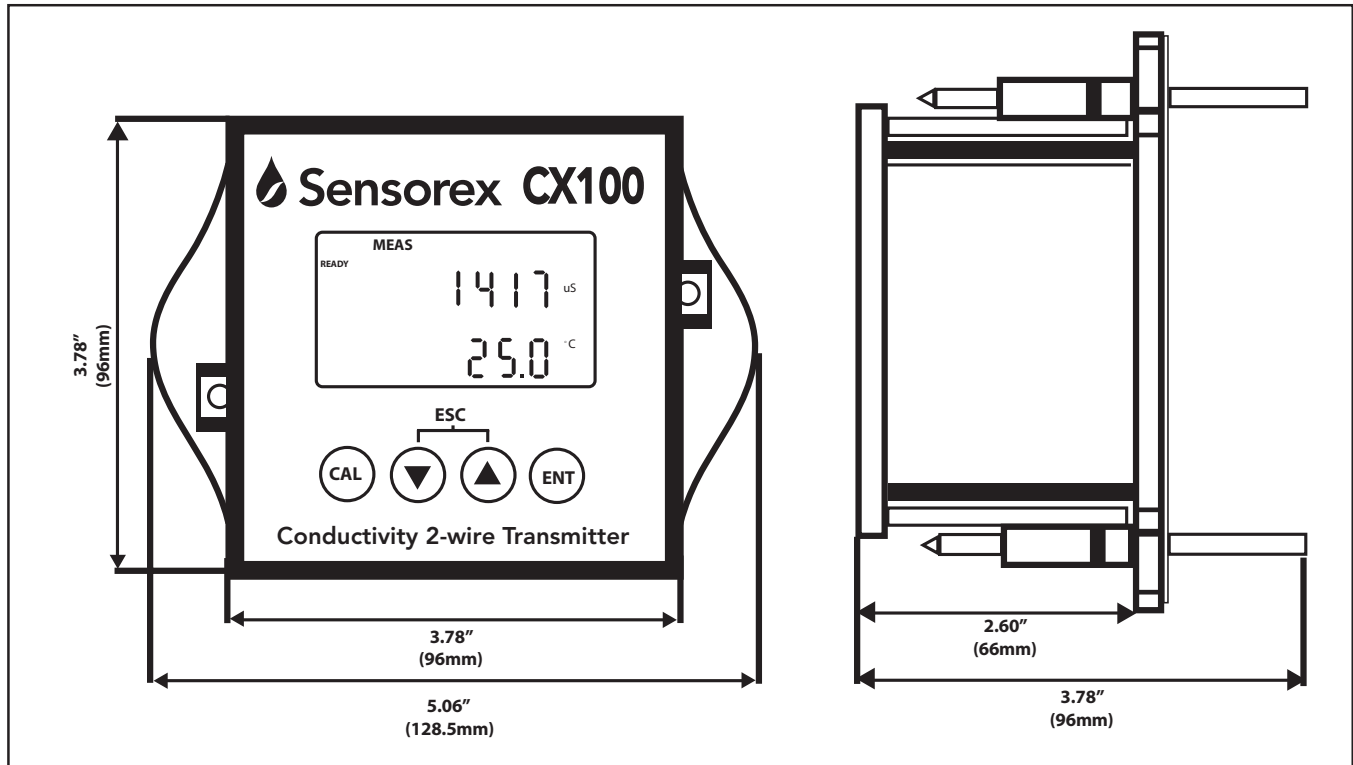
Easy Push Button Operation

Automatic (with Pt 100) or manual Temperature Compensation

Panel or Wall Mount, Nema 4x, IP65 Weatherproof Housing

This isolated output 4-20mA industrial transmitter, a sturdy microprocessor-based instrument, measures conductivity and temperature. It transmits conductivity measurements via a two-wire power supply loop. The industrial transmitter has many user friendly features—all of which are easily accessible via the water resistant membrane keypad. Ideal for connecting to a PLC for advanced control systems, the transmitter can also be connected to a recorder for a low-cost documentation system. The instrument housing is designed for panel or wall mounting.

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Ordering Information

Part number	Description
CX100	1/4 DIN, 2-wire, loop-powered, 4-20mA, contacting conductivity transmitter