

CX3100 INTELLIGENT (HIGH TEMP) CONDUCTIVITY TRANSMITTER

PRODUCT SPECIFICATION SHEET



Monitor Conductivity, TDS, Resistivity or Salinity

Programmable Hi/Hi, Hi/Lo, Lo/Lo Relays

2 analog 4-20mA outputs

Automatic temperature compensation up to 200 $^{\circ}\text{C}$

User friendly text and graphical illustrations

The CX3100 replaces the Sensorex CX3000 as our conductivity, resistivity, TDS, and salinity monitoring instrument in a 1/2 DIN size.

This transmitter/controller is ideal for boiler applications, providing accurate temperature compensated readings up to 200 $^{\circ}\text{C}$ (the highest of any of our instruments). With PT1000 temperature compensation, the CX3100 is compatible with Sensorex's best in class stainless steel boiler conductivity probes (CS675, CS676, and CS875).

The CX3100 features brand new firmware and an updated user interface with user friendly text and graphical illustrations. This makes the instrument more intuitive to use compared with the older CX3000.

SPECIFICATIONS

Calibration Mode	(1) Manual cell constant adjustment (2) Conductivity standard solution calibration
Cell Constants	0.1 cm^{-1} or 10 cm^{-1} fixed or Freely selectable 0.0080-19.99 cm^{-1}
Analog Output 1	Isolated DC 0/4-20mA (Measurement), Max load 500 Ω
Analog Output 2	Isolated DC 0/4-20mA (Temperature), Max load 500 Ω
Ambient Temperature	0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$
Storage Temperature	-20 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$
Temperature Compensation	Automatic: PT1000 or PT100 or Manual
Temperature Coefficient	Linear compensation 0.00-40.00% Non-linear compensation for pure water
Power Requirement	100-240V AC $\pm 10\%$, 7W Max, 50/60 Hz
Mounting Options	Panel or Wall Mount
Dimensions	1/2 DIN: 144mm (5.7in) x 144mm (5.7in) x 115mm (4.5in)
Weight	0.8 kg (1.8 lbs)
Enclosure	IP65 (NEMA 4X)
Display	LCM, auto-sense backlight, contrast, text mode

MEASUREMENTS

Conductivity	Range: 0.000 $\mu\text{S}/\text{cm}$ - 2000 mS/cm in 7 ranges (auto or fixed)
	Resolution: 0.001 / 0.01 / 0.1 / 1 $\mu\text{S}/\text{cm}$ (0.01 / 0.1 / 1 mS/cm)
	Accuracy: $\pm 1\%$
Resistivity	Range: 0.00-20.0 $\text{M}\Omega\text{-cm}$
	Resolution: 0.01 $\text{M}\Omega\text{-cm}$
	Accuracy: $\pm 1\%$
TDS	Range: 0 ppm-19,999 ppm (0.00 ppt-199.99 ppt)
Salinity	Range: 0.0 ppt-70.0 ppt
	Range: -30 $^{\circ}\text{C}$ to 200 $^{\circ}\text{C}$
Temperature	Resolution: 0.1 $^{\circ}\text{C}$
	Accuracy: $\pm 0.2^{\circ}\text{C}$

DESIGNED AND ASSEMBLED IN CALIFORNIA, USA

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