

# 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°C**

**User friendly text and graphical illustrations**

The CX3100 replaces the Sensorex CX3000 as our conductivity, resistivity, TDS, and salinity monitoring instrument in a ½ DIN size.

This transmitter/controller is ideal for boiler applications, providing accurate temperature compensated readings up to 200°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

<b>Calibration Mode</b>	(1) Manual cell constant adjustment (2) Conductivity standard solution calibration
<b>Cell Constants</b>	0.1 cm <sup>-1</sup> or 10 cm <sup>-1</sup> fixed or Freely selectable 0.0080-19.99 cm <sup>-1</sup>
<b>Analog Output 1</b>	Isolated DC 0/4-20mA (Measurement), Max load 500 Ω
<b>Analog Output 2</b>	Isolated DC 0/4-20mA (Temperature), Max load 500 Ω
<b>Ambient Temperature</b>	0°C to 50°C
<b>Storage Temperature</b>	-20°C to 70°C
<b>Temperature Compensation</b>	Automatic: PT1000 or PT100 or Manual
<b>Temperature Coefficient</b>	Linear compensation 0.00-40.00% Non-linear compensation for pure water
<b>Power Requirement</b>	100-240V AC ±10%, 7W Max, 50/60 Hz
<b>Mounting Options</b>	Panel or Wall Mount
<b>Dimensions</b>	½ DIN: 144mm (5.7in) x 144mm (5.7in) x 115mm (4.5in)
<b>Weight</b>	0.8 kg (1.8 lbs)
<b>Enclosure</b>	IP65 (NEMA 4X)
<b>Display</b>	LCM, auto-sense backlight, contrast, text mode

## MEASUREMENTS

<b>Conductivity</b>	Range: 0.000 uS/cm - 2000 mS/cm in 7 ranges (auto or fixed)  Resolution: 0.001 / 0.01 / 0.1 / 1 uS/cm (0.01 / 0.1 / 1 mS/cm)  Accuracy: ±1%
<b>Resistivity</b>	Range: 0.00-20.0 MΩ-cm  Resolution: 0.01 MΩ-cm  Accuracy: ±1%
<b>TDS</b>	Range: 0 ppm-19,999 ppm (0.00 ppt-199.99 ppt)
<b>Salinity</b>	Range: 0.0 ppt-70.0 ppt  Range: -30°C to 200°C
<b>Temperature</b>	Resolution: 0.1°C  Accuracy: ±0.2°C

**DESIGNED AND ASSEMBLED IN CALIFORNIA, USA**

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