

<u>1066 (2-wire)</u>

Model 1066 Single Channel pH, ORP, Contacting and Toroidal Conductivity 2-Wire Transmitter & Analyzer



pH/ORP/ISE Sensors WITHOUT preamplifier Hook-Up Schematic
pH/ORP/ISE Sensors WITH preamplifier Hook-Up Schematic
pH/ORP/ISE Sensors with Mini External Preamplifier Hook-Up Schematic
Guide to quick disconnect Q7M/Q7F snap cable system for Rosemount transmitters
Contacting Conductivity Sensor Hook-Up Schematic
Toroidal Conductivity Sensor Hook-Up Schematic

- Chemically & Mechanically Resilient Polycarbonate NEMA 4X / CSA 4 IP66 Enclosure Standard 1/2 DIN Cutout
- 2-Wire Loop-Powered 24VDC Power Operation with scalable 4-20mA analog current loop output standard
 - Second 4-20mA loop-powered output available to send process temperature

- Automatic Temperature Compensation via 100 or 1000 0hm Platinum Temperature Compensation Element (Available in Standard and ACCU-TEMP fast response configurations)
- HART 7 is Standard and Foundation FieldBus available as an optional digital output
- Large LCD Display with touch membrane keypad Menu Driven Interface and Programming
- Automatic Temperature Compensation from 0 to 150 °C (32 to 302 °F) for pH/ORP and 0 to 200 °C (32 to 392 °F) for Conductivity
- Area Classifications:
 - ∘ Intrinsically Safe (with appropriate safety barrier) for:
 - CSA/UL Class I, II, III, Div. 1 Groups A-G T4 Tamb = -20°C to 65°C
 - ALTEX Baseefa04ATEX0195X EEx ia IIC T4 Tamb = -20°C to 65°C
 - IECEx BAS 11.90098X EEx ia IIC T4 Tamb = -20°C to 65°C
 - ∘ Non-Incendive:
 - CSA/UL Class I, Div. 2, Groups A-D Dust Ignition Proof Class II & III, Div. 1, Groups E-G NEMA 4X Enclosure T4 Tamb = -20°C to 65°

1066 Product Specifications 1066 Operation Manual

Measurement	Input	Measurement Range	Outputs	Calibration Points	Compatible Sensor(s)	Special Features
pH/ORP	Single or Dual Channel — pH/ORP	- 0 to 14 pH (standard) - Fully Scalable from 1 to 13 pH units	- Analog 0-20 mA or 4-20 mA output for pH/ORP/ISE or temperature for each input channel - Optional HART or ProfiBUS Digital Outputs	- 2 point auto buffer recognition for pH for slope determination - 1 point user defined pH standardize calibration to correct for offset (drift)	- Any Suitable ASTI pH/ORP Sensor with 100 or 1000 Ohm Platinum TC - Any Suitable ASTI pH/ORP Sensor with 100 or 1000 Ohm Platinum TC & 1056 compatible preamplifier	- Excellent option for severe service pH & ORP measurement in areas with flammable gas and corrosive environments.

Contacting Conductivity	Single or Dual Channel — Conductivity Cell	- Cell from 0.01 to 10.0, user selectable - Ranges from 0-200 microSiemens (0.01/cm) to 0-200 milliSiemens (10.0/cm) as mates with cell	- Analog 0-20 mA or 4-20 mA output for Conductivity or temperature for each input channel - Optional HART or ProfiBUS Digital Outputs	- Zero Calibration (Capitance) - Cell Constant calibration tofFind exact effective (apparent) cell constant in standard solution or process media	<pre>- Any Suitable Contacting Conductivity Sensor with 1000 Ohm Platinum TC</pre>	- Support for displaying in concentration units of acids, bases and electrolytes as well as salinity - Special ultrapure water temperature compensation and support for display in resistivity units
Toroidal Conductivity (Contactless Inductive)	Single or Dual Channel - Toroidal Conductivity Sensor	- Range from 0.050 to 2,000 milliSiemens (2 Siemens)	- Analog 0-20 mA or 4-20 mA output for Conductivity or temperature for each input channel - Optional HART or ProfiBUS Digital Outputs	- Zero Calibration (Capitance) - Cell Constant calibration tofFind exact effective (apparent) cell constant in standard solution or process media	- Any Suitable Toroidal Conductivity Sensor with 20/20 Windings and 1000 Ohm Platinum TC	- Support for displaying in concentration units of acids, bases and electrolytes as well as salinity - Excellent choice for strong acid, strong base and strong electrolyte solutions at elevated temperatures