1066 (2-wire)

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

reading in addition to measured analytical liquid parameter

- Automatic Temperature Compensation via 100 or 1000 Ohm 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	– Any Suitable Contacting Conductivity Sensor with 1000 Ohm Platinum TC	– 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