1056 (4-wire)

Model 1056 Single & Dual Channel pH, ORP, Ion Selective (ISE), Contacting and Toroidal Conductivity 4-Wire Transmitter, Controller & Analyzer



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

COMPARISON CHART FOR 1056, 1057 & 56 ANALYZERS

- Chemically & Mechanically Resilient Polycarbonate NEMA 4X / CSA 4 IP65 Enclosure – Standard 1/2 DIN Cutout

- 115/230 VAC & 24 VDC 4-Wire Power Operation Standard (With or Without Relays)
- Optional Dry Contact 5A Relays for alarm or simple on/off control functionality, 4 each
- **Available in any combination of Single or Dual Channel pH / ORP / ISE / Conductivity Configurations**
- Extremely cost effective solution to simple pH, ORP, ISE & Conductivity Analyzer / Transmitter / Controller Requirements
- Automatic Temperature Compensation via 100 or 1000 Ohm Platinum Temperature Compensation Element (Avaialble in Standard and ACCU-TEMP configurations)
- Dual (2 each) Isolated & Independent 0-20 or 4-20 mA outputs for Signal and/or temperature standard, fully user configurable
- Optional HART and ProfiBUS available for any mix of measurement channels
- 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 & ISE and 0 to 200 °C (32 to 392 °F) for Conductivity

1056 Product Specifications

1056 Operation Manual

1056 HART Addendum

1056 ProfiBUS Addendum

Measurement	Input	Measurement Range	Outputs	Calibration Points	Compatible Sensor(s)	Special Features
Ion Selective (ISE) *	*Single or Dual Channel* – Ion Selective Solid State & Organic Membrane	5 Decades Maximum Concentration Range from 1 ppb to 1 Molar (varies with each ion; please inquire to ASTI)	– 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 user defined to determine ISE slope – 1 point user defined for ISE standardize to correct for offset (drift)	– Any Suitable ASTI ISE Sensor with 100 or 1000 Ohm Platinum TC – Any Suitable ASTI ISE Sensor with 100 or 1000 Ohm Platinum TC & 1056 compatible preamplifier	– Cost Effective Solution for Dual Channel ISE measurements

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	– Cost Effective Solution for Dual Channel pH/ORP measurements
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

Download the Complete Printable 1056 Product Brochure (PDF)

** Ion selective measurement type must be set at time of purchase at ASTI factory. Transmitters configured for ISE measurement not sold separately but rather only as part of complete ISE system including ISE transmitter AND ISE sensor supplied complete from ASTI factory. ISE measurement must be validated for feasibility by ASTI prior to sale.*