

AdvantEDGE pH



- Differential pH measurement
- Pre-calibrated (no field calibration required)
- Plug & play sensor heads
- Replaceable quad junction salt bridges
- Electrode protection options
- Direct data reporting
- Plug & play industrial communications adapters

Connect this pH sensor to a PLC for seamless integration with industrial control systems. Use any computer to display data, calibrate and customize the measurement without an intermediate analyzer electronics box. A LD500 local display can be used if desired. Sensor heads are pre-calibrated and can be replaced or exchanged with any other type of sensor without taking the system down. Save space, time and money.

Measurement System Performance

Range: 0 to 14 pH

Resolution: 0.01 pH

Accuracy: 0.014 pH

Step Response Time: 90% in 30 seconds

Note: Typical at 25°C

Performance unaffected by cable length

Operational Environment

Temperature Range: -5°C to 95°C

Maximum Pressure: 100 psi @ 95°C 85 psi @ 75°C

Maximum Flow Rate: 10 ft/second

Power Requirements

Voltage Range: 10 to 30 VDC

Maximum Power: 200 mW

Typical Power: 120 mW

Note: Class II DC power supply required

Approvals and Ratings

Immunity & Emissions: CE (EN61326 and EN61326:1998)

Safety: CE (EN 61010-1) UL 508

Hazardous Locations: UL Class I, Division 2

Construction

Process Electrodes: "G", "HF" or Low Temperature Glass

Ground Rod: Titanium, 316 Stainless Steel or Hastelloy C

O-Rings: Viton® (other materials available)

Units of Measure

Measurement Units: pH, mV

Temperature Units: °C, °F

Calibration

Automatic Buffer: 1 and 2 point

Sample: 1 and 2 point

Temperature: 1 and 2 point

Note: pH and temperature are precalibrated at the factory

Temperature Compensation Options

Linear: % per °C

Built-in tables: Ammonia or Morpholine

Note: Temperature can be entered manually

Other Configuration Options

Sensor Filter: 0 to 100 seconds

Temperature Filter: 0 to 100 seconds

Auto Calibration Buffer

Standards: (4, 7, 10) and DIN 19267

AdvantEDGE ORP



- Differential ORP measurement
- Pre-calibrated (no field calibration required)
- Plug & play sensor heads
- Replaceable quad junction salt bridges
- Electrode protection options
- Direct data reporting
- Plug & play industrial communications adapters

Connect this ORP sensor to a PLC for seamless integration with industrial control systems. Use any computer to display data, calibrate and customize the measurement without an intermediate analyzer electronics box. A LD500 local display can be used if desired. Sensor heads are pre-calibrated and can be replaced or exchanged with any other type of sensor without taking the system down. Save space, time and money.

Measurement System Performance

Range: -2100mV to +2100mV

Resolution: 0.1mV

Accuracy: 0.1% of reading

Step Response Time: 90% in 30 seconds

Note: Typical at 25°C

Performance unaffected by cable length

Operational Environment

Temperature Range: -5°C to 95°C

Maximum Pressure: 100 psi @ 95°C 85 psi @ 75°C

Maximum Flow Rate: 10 ft/second

Power Requirements

Voltage Range: 10 to 30 VDC

Maximum Power: 200 mW

Typical Power: 120 mW

Note: Class II DC power supply required

Construction

Process Electrodes: Platinum or Gold

Ground Rod: Titanium, 316 Stainless Steel or Hastelloy C

O-Rings: Viton® (other materials available)

Units of Measure

Measurement Units: mV

Temperature Units: °C, °F

Calibration

Sample: 1 point

Temperature: 1 and 2 point

Note: ORP and temperature are precalibrated at the factory

Temperature Compensation Options

Temperature measurement is provided as an independent measurement.

Note: Temperature can be entered manually

Other Configuration Options

Sensor Filter: 0 to 100 seconds

Temperature Filter: 0 to 100 seconds

Approvals and Ratings

Immunity & Emissions: CE (EN61326 and

EN61326:1998)

Safety: CE (EN 61010-1) UL 508

Hazardous Locations: UL Class I, Division 2