

## 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.

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### 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

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### 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

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### Power Requirements

**Voltage Range:** 10 to 30 VDC

**Maximum Power:** 200 mW

**Typical Power:** 120 mW

**Note:** Class II DC power supply required

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### Approvals and Ratings

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

**Safety:** CE (EN 61010-1) UL 508

**Hazardous Locations:** UL Class I, Division 2

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### Construction

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

**Ground Rod:** Titanium, 316 Stainless Steel or Hastelloy C

**O-Rings:** Viton® (other materials available)

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### Units of Measure

**Measurement Units:** pH, mV

**Temperature Units:** °C, °F

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### 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

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### Temperature Compensation Options

**Linear:** % per °C

**Built-in tables:** Ammonia or Morpholine

**Note:** Temperature can be entered manually

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### 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.

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### 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

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### 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

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### Power Requirements

**Voltage Range:** 10 to 30 VDC

**Maximum Power:** 200 mW

**Typical Power:** 120 mW

**Note:** Class II DC power supply required

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### Construction

**Process Electrodes:** Platinum or Gold

**Ground Rod:** Titanium, 316 Stainless Steel or Hastelloy C

**O-Rings:** Viton® (other materials available)

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### Units of Measure

**Measurement Units:** mV

**Temperature Units:** °C, °F

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### Calibration

**Sample:** 1 point

**Temperature:** 1 and 2 point

**Note:** ORP and temperature are precalibrated at the factory

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### Temperature Compensation Options

Temperature measurement is provided as an independent measurement.

**Note:** Temperature can be entered manually

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### Other Configuration Options

**Sensor Filter:** 0 to 100 seconds

**Temperature Filter:** 0 to 100 seconds

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### Approvals and Ratings

**Immunity & Emissions:** CE (EN61326 and

EN61326:1998)

**Safety:** CE (EN 61010-1) UL 508

**Hazardous Locations:** UL Class I, Division 2