

AdvantEDGE Free Chlorine Panel



- Free Chlorine
- Amperometric Measurement
- Temperature Compensated
- Optional pH Correction
- Pre-Calibrated
- Plug & Play
- Rugged Teflon Membrane
- Replaceable Membrane Cap
- Remote Measurement, Calibration, Configuration, and Diagnostics.

This Free Chlorine sensor will measure accurately in processes that are between 4 and 8 pH. When used with the LD500 Local Display unit and a pH measurement

system, hypochlorous acid (HOCL) and hypochlorite ion (OCL-) concentration can be used to determine free chlorine present.

Measurement System Performance:

Ranges: 0 to 5 ppm and 0 to 20 ppm

Resolution: 0.005 ppm

Accuracy: 2% or +/- 10 ppb (whichever is greater)

Step Response Time: 90% in 90 seconds

Operational Environment:

Temperature Range: 0°C to 45°C

(32°F to 113°F)

Maximum Pressure: 15 psig @ 45°C

System Flow in Chamber: 200 to 250ml/min

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: Gold Cathode, Silver Anode.

Membrane: Teflon

O-Rings: Viton

Sensor Head Material: Noryl®

AdvantEDGE Material: CPVC or PEEK®

Weight: 1.2 lbs

Units of Measure:

Measurement Units: ppm, mg/l free chlorine

Temperature Units: °C, °F

Calibration:

Sample: 1 point

Zero: 1 point

Temperature: point

Note: *Precalibrated at the factory*

Other Configuration Options:

Sensor Filter: 0 to 100 seconds

Temperature Filter: 0 to 100 seconds

Approvals and Ratings:

Immunity and Emissions: CE Certified 89/336/EEC:CISPER 11, EN61000 (-4-2,-4-3,-4-4,-4-6, 4-8)

Safety: cULus Listed; 367G E303570

Hazardous Locations: Haz Loc Class 1, Division 2, Groups A, B, C, D. Max Ambient 50 °C

AdvantEDGE Turbidity



- 0 to 4000 NTU measurement range
- Conforms to ISO 7027
- 90 degree and 180 degree light paths
- Rugged, foul resistant construction
- Local and Remote configuration and diagnostics
- Temperature measurement included
- Direct data reporting
- Plug & play industrial communications adapters

Connect this Raw Water Turbidity 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.

Measurement System Performance:

Range: 0 TO 4000 NTU

Resolution: 0.1 NTU

Accuracy: 0.2 NTU

Step Response Time: 90% in 15 seconds

Note: *Typical at 25 C; Performance unaffected by cable length.*

Operational Environment:

Temperature Range: -5 to 50 C

Maximum Pressure: 150 psi @ 50 C

Maximum Flow Rate: 10 ft./Sec.

Power Requirements:

Voltage Range: 10 to 30 VDC

Maximum Power: 200 mW

Typical Power: 120 mW

Note: *Class II DC power supply required*

Measurement Modes:

Turbidity: 90 degree/ 180 degree, narrow beam, IR light

Sediment Load: Blue to IR spectrum detected at 90 degrees and 180 degrees

Temperature: Automatic from -5 to 50 C

Construction:

Windows: Quartz or Sapphire

Optical Topology: Multi-Color Source

O-Rings: Viton® (other materials available)

Sensor Head Material: Polycarbonate

Weight: 1.2lbs

Units of Measure:

Measurement Units:

Turbidity Mode: NTU

Sediment mode: mg/l %

Temperature Units: C, F

Calibration:

Sample: 1 point

Zero: 1 point

Temperature: 1 and 2 point

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

Other Configuration Options:

Sensor Filter: 0 to 100 seconds

Temperature Filter: 0 to 100 seconds

Approvals and Ratings:

Immunity and Emissions: CE Certified 89/336/EEC:CISPER 11, EN61000 (-4-2,-4-3,-4-4,-4-6, 4-8)

Safety: cULus Listed; 367G E303570

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