

Chlorine System Specifications



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.

- 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.

Measurement System Performance

Ranges: 0 to 5 ppm, 0 to 10 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

Units of Measure

Measurement Units: ppm, mg/l free chlorine
 Temperature Units: °C, °F

Operational Environment

Temperature Range: 0°C to 45°C
 (32°F to 113°F)
 Maximum Pressure: 15 psi @ 45°C
 System Flow Rate in Chamber: 200 to 250 ml/min

Calibration

Sample: 1 point
 Zero: 1 point
 Temperature: 1 and 2 point
Note: Precalibrated at the factory

Power Requirements

Voltage Range: 10 to 30 VDC
 Maximum Power: 200 mW
 Typical Power: 120 mW
 Note: Class II DC power supply required

Other Configuration Options

Sensor Filter: 0 to 100 seconds
 Temperature Filter: 0 to 100 seconds

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

Approvals and Ratings

Immunity and Emissions: CE (EN61326 and EN61326:1998)
 Safety: CE (EN 61010-1)
 Hazardous Locations: UL Class 1, Division 2