Aqua2000-FCL
Free Chlorine Analyzer with pH

Free Chlorine Sensor
Reference Electrode Surface Coating with ion-permeable polymer film

Differential pH Sensor

APPLICATIONS

- ✓ Waterworks Treatment and Distribution
- ✓ Wastewater Tertiary Discharge
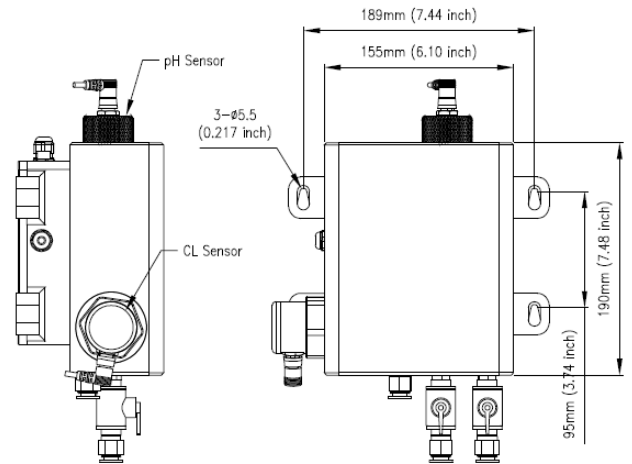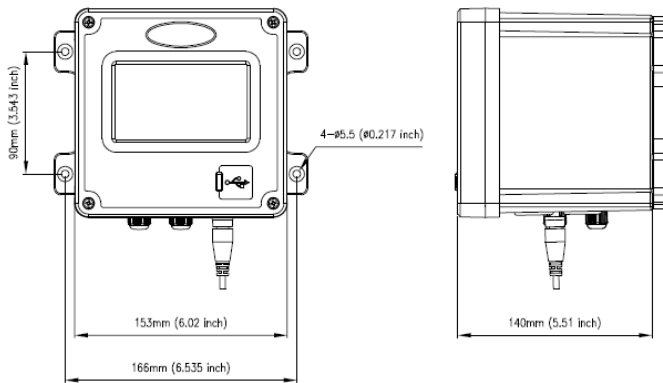- ✓ Industrial Water

FEATURES

- Compliant with EPA Method 334.0 amperometric Free Chlorine analysis
- Low maintenance costs
- Real-time measurement
- Specialized electrode protection technology with membrane cap
- pH auto compensation function calculates accurate free chlorine concentration
- Extremely short polarization time, 30 minutes to 90% of signal strength

Aqua2000-FCL
Product Specifications

CONTROLLER DIMENSIONS

SENSOR DIMENSIONS

Controller System Performance	
Enclosure	NEMA 4X (IP65), Panel-mount / Wall-mount
Display	4.3 TFT Color Touch LCD
Sensor Connections	Plug & Play, 1st Sensor standard, 2nd Sensor Optional
Parameters	Turbidity, Free Chlorine, pH, Conductivity & Temperature
Power	110/220 VAC, 50/60 Hz
Outputs	3 x 4-20 mA, 3 x Relays
Communications	RS232/RS485 Modbus, USB Port, SD Card Slot

Operational Environment	
Temperature Range	-5℃ to 50℃ (Water Temperature), -20℃ to 60℃ (Air Temperature)
Flow Range	200-500 mL/min

Calibration & Options	
Auto Compensation	Temperature auto compensation, pH 4~9 auto compensation
Calibration	Zero Calibration, Span Calibration

Sensor Measurement System Performance	
Measurement Method	Polarographic Amperometric Method (Reagent-less)
Measurement Range	0 ~ 2/10/20 mg/L
Resolution	0.001 mg/L
Accuracy	±0.01 mg/L
Reproducibility	±1%
Measurement Units	mg/L (ppm), Temperature (℃, ℉)
Response Time	90%, Within 90 Seconds

Materials of Construction	
Chlorine Electrode	Electrode Protection by membrane cap
Chlorine Sensor	Electrode: Cathode - Gold, Anode - Silver (Anodizing) Membrane: PTFE
pH Electrode	Differential type with built-in salt bridge
Temperature Electrode	Platinum Thermometer (PT1000Ω)
Sensor Housings	Waterproof (IP68), Acetal (corrosion and chemical resistance)