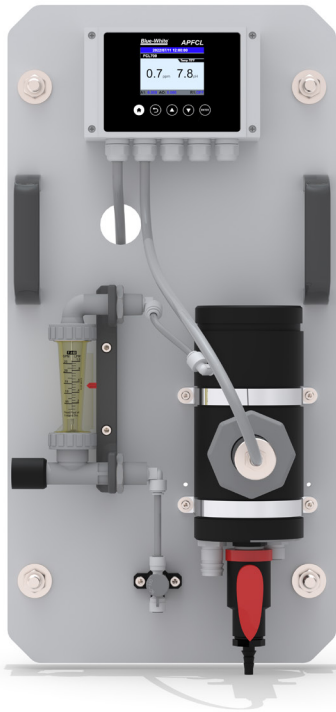


APFCL

Online Chlorine + pH Analyzer



Key Features

- Turn-Key Monitoring Solution for Clean Water Applications
- Highly Accurate, Real-Time Measurement, Display, and Data-Logging
- Chlorine (Free or Total), pH, and Temperature
- Color Display and Data-Logging Terminal
- FCL700 Smart Sensor
- EPA 334.0 / ISO 7393 Compliant

Highlights

Free Chlorine Method

Bare Gold - Electrochemical Method
Chlorine Range: 0.1 - 5 PPM

pH Method

Electrochemical Method
Flat Bubble Electrode

Sensor

FCL700 Composite

Compensation

Built-in Temperature and pH
Parameter Compensation

Sampling Chamber

WR05 Sensor Flow Reservoir

Warranty

13 Months

Typical Applications

- Drinking Water / Domestic Water
- Secondary Water Supply
- Sanitary Water
- Decorative Water / Swimming Water
- Food & Beverage Process Water
- RO Feedwater



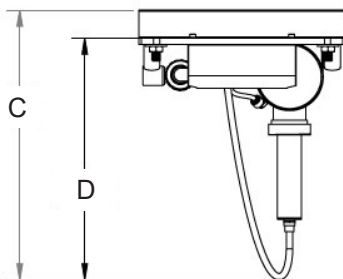
Engineering Specifications

Item	APFCL
Sensor Body Material	304SS
Sensor Name	FCL700
Chlorine Range	0.00-5.00 ppm, 0.00-10.0 ppm (Free or Total)
Precision	+/- 0.01mg/L or 1% of the value w/pH compensation to 9.0
pH Range	0-14
pH Precision	+/- 0.01 pH
Sample Operating Temperature	40 – 104 °F (4 °C – 40 °C)
Sample Inlet Pressure	7.5 – 30 psi (0.05 – 0.2MPa) (or as needed to provide required flow rate)
Sensor Maximum Pressure	100 psi (6.9 Bar)
Sensor Response Time	T95≤60s – Free Chlorine / T95≤5s - pH
Measurement Interval	Continuous
Installation	WR05 Self-Regulating Flow Reservoir w/Rotameter & Isolation Valve - Included
WR05 Minimum Flow Rate	3.1 g/h (200 mL/minute)
WR05 Maximum Flow Rate	6.2 g/h (400 mL/minute)
WR05 Sample Inlet	1/4 - inch OD
WR05 Sample Outlet	3/4 - inch ID - To Drain
WR05 Sewage Overflow Outlet	3/8 - inch OD - To Drain
Panel Power Supply	110/220VAC 50/60 Hz, 0.6A
Panel Storage Temperature	-4 – 158 °F (-20 – 70 °C)
Panel Operating Temperature	32 – 122 °F (-0 – 50 °C)
TS05 Display	2.8" Color 320 x 240 Resolution
Input	2 x 4-20 mA (pH and Cl) / RS-485 Modbus-RTU (from sensor)
Output	3 x 4-20 mA (2 for passthrough Cl and pH (non-configurable), and 1 configurable for pH, Temp, or Cl) RS-485 Modbus-RTU 1 x Contact Relay
Data Storage	32 M Flash
USB	1 x USB host for data downloading
Relative Humidity	5% - 95% (No Condensation)
Altitude	<6,561 feet (<2,000 Meter)
Dimension (H x W x D)	Panel 24.0" x 12.0" x 15.67" (610H x 305W x 398D mm)
Approximate Weight	~ 11 lbs (5 kg)
Wet Material	UPVC / Polycarbonate
Rating	IP-65 Panel-Display / IP-67 Sensors
Compliance	EPA 334.0 / ISO 7393
Regulation	CE Marked / RoHS
Typical Electrode Service Life	2 years
Electrode Warranty	6 Months
Sensor Body Warranty	13 Months
Shipping Dimensions	29" x 17" x 13" (737H x 432W x 330D mm)

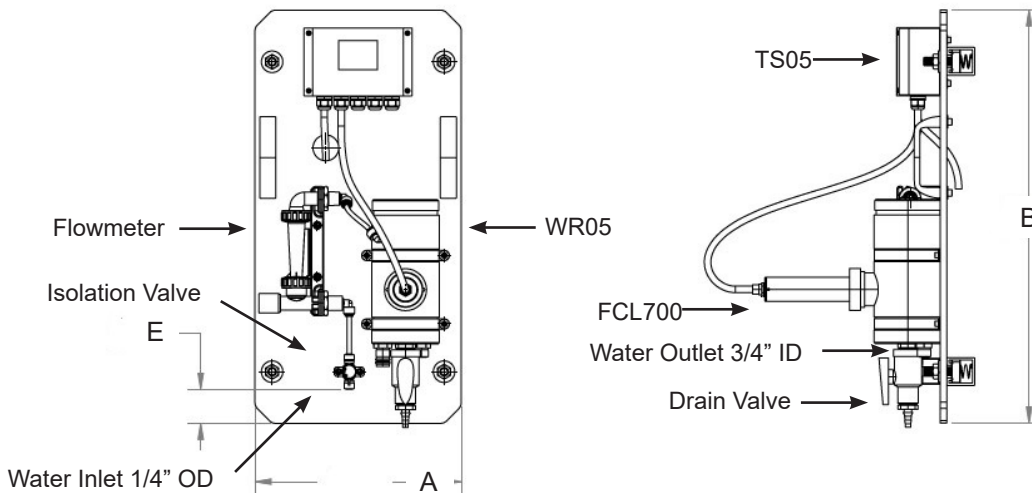
Features

- FCL700 three-parameter composite sensor for residual free chlorine, pH and temperature in compliance with USEPA 334.0 guidelines. Advanced sensor PCB offers built-in temperature and pH parameter compensation (up to pH 9.0) algorithms.
- Unique Bare-Gold electrode technology for residual chlorine measurement eliminates membranes and electrode solution replenishment commonly associated with conventional sensors. Uniquely designed flat bubble pH electrode design for reduced fouling potential.
- WR05 Sensor Flow Reservoir provides sample calming for dissipation of air-bubbles and settling of suspended solids, foam or other impurities commonly observed in drinking water influent. Allows highest level of resolution on the market, and greatly extends the maintenance cycle of the sensor while providing a large buffer capacity to mitigate pressure fluctuations.

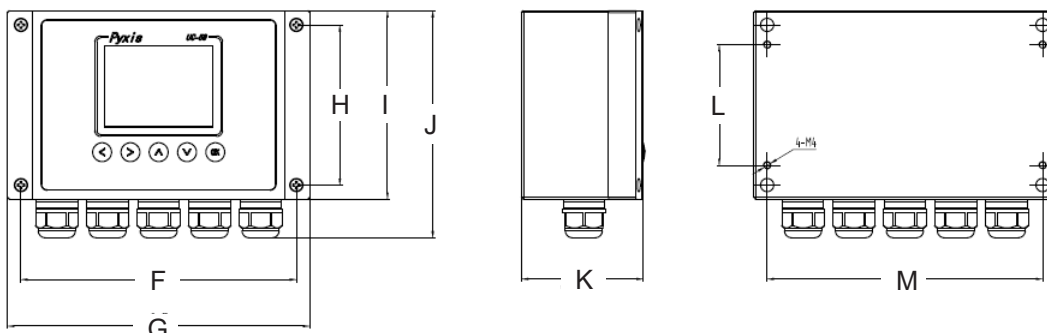
APFCL Series Panel Dimensions



Dim	Inch	cm
A	12.00"	30.5
B	24.00"	61.0
C	15.67"	39.8
D	14.05"	35.7
E	1.98"	5.0



APFCL Series Controller Dimensions



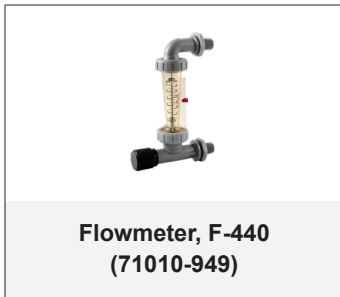
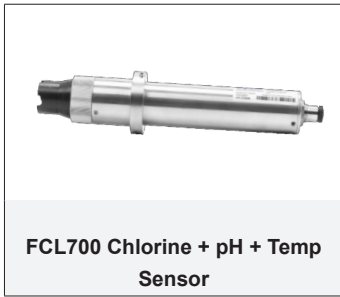
Dim	Inch	cm
F	5.75"	14.6
G	6.3"	16.0
H	3.35"	8.5
I	3.94"	10.0
J	4.92"	12.5
K	2.54"	6.5
L	2.52"	6.4
M	5.75"	14.6

APFCL Analyzer Panel

Model Number

APFCL	Chlorine Analyzer Panel (Chlorine, pH, Temperature)
Includes: TS05 2.8" LCD Display, WR-05 Flow Reservoir, FCL700 Chlorine/pH/Temperature Sensor, Assembled Panel with Flowmeter, 110VAC Power Cord.	
- Power Requirement 110/220VAC / 50-60 Hz, 0.6 A	
- CE, RoHS, EPA-334.0 and ISO-7393	

Replacement Parts and Accessories



Sensor Cleaning Solution, 500 mL bottle (90008-988)
AP-MA1.5-CR 1.5 meter Short Cable - 8Pin x Flying leads (90008-954)
pH Calibration Combo Pack (4, 7, 10 pH), 500 mL bottles (90008-983)