Blue-White



APH2O

Multi Parameter Online Analyzer

Key Features

- Turn-Key Monitoring Solution for Clean Water Applications
- Highly Accurate, Real-Time Measurement, Display, and Data-Logging
- Ultra-Low Turbidity, Chlorine (Free or Total), pH, and Temperature
- Touch Screen Display and Data-Logging Terminal
- FCL700 Smart Sensor
- UT700 Ultra-Low Turbidity Sensor with Unique Flat Surface Distal
 End in Quartz Glass Plate
- EPA 334.0 / ISO 7393 / EPA 180.1 Compliant

Highlights

Turbidity Dual Range

.001 - 10 / 10 - 40.00 NTU

Free Chlorine Method

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

Sampling Chamber

Dual Sensor Flow Reservoir

Turbidity Accuracy

+/- 0.005 NTU or 2% <10NTU

pH Method

Electrochemical Method

Warranty

13 Months

Turbidity Repeatability

+/- 0.001 NTU or 0.5% <10NTU

Sensors

White Light (LED) Flat Electrode FCL-700 Composite Sensor

Typical Applications

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





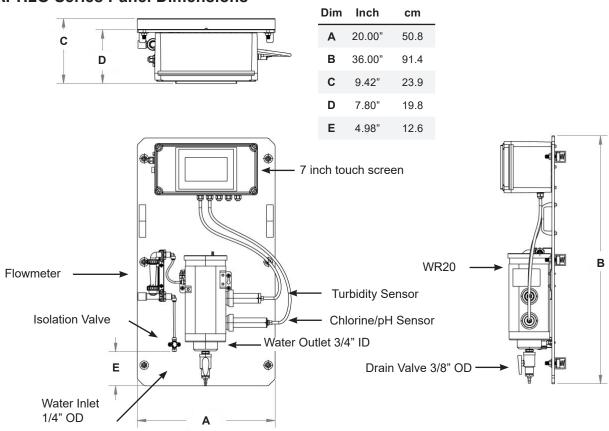
Engineering Specifications

Item	APH2O	
Turbidity Wavelength	Warm White	
Light Source	LED	
Turbidity Dual Range	0.001 – 10 / 10 - 40.00 NTU	
Turbidity Accuracy	+/- 0.005 NTU or 2% <10NTU	
Turbidity Repeatability	+/- 0.001 NTU or 0.5% <10NTU	
Chlorine Method	Bare Gold - Electrochemical Method	
Chlorine Range	0.01 – 5.00 ppm, 0.01 - 10.00 (Free or Total)	
pH Method	Electrochemical Method	
pH Range	0.01 – 14.00 pH	
pn Kange	0.001 NTU or ± 1% Full Scale	
Measurement Accuracy	+/- 0.01 ppm or 1% Full Scale w/pH compensation to 9.0 +/- 0.01 pH	
Minimum Resolution	0.001 NTU 0.01 ppm 0.01 pH	
Response time	4s after immersion - Turbidity T95≤60s – Free Chlorine T95≤5s - pH	
Compliance	EPA-180.1/334.0	
Measurement Interval	Continuous Measurement	
Display	7-inch LCD Color Industrial Capacitive Touch Screen	
Storage Capacity	Built-In 4GB of Ram for Storing up to 1-Million Data/Event Records	
Power Requirement	96-260VAC / 50-60 Hz; 10A Fuse; 200 W	
Output	3 x 4-20 mA (NTU, Cl, and pH) / RS-485 Modbus - RTU / Modbus TCP	
Input	3 x 4-20 mA / RS-485 Modbus - RTU (from sensor)	
USB	1 x USB host, for data downloading and screen upgrade	
Internet	RJ-45 socket, Modbus-TCP	
Panel Operational Temperature	40 – 113°F (4-45 °C)	
Storage Temperature	Instrument: -4 – 131°F (-20 – 55°C) / Sensors 32 – 122°F (0 – 50°C)	
Sample Water Temperature	40 – 104°F (4-40°C)	
Sample Water Pressure	2-30 psi (0.05-0.2 MPa) - (or as needed to provide required flow rate)	
WR20 Sample Water Flow Rate	9.5 - 15.5 GPH (600-1,000mL /Minute)	
WR20 Line Size	1/4" Inlet / 3/8" Overflow / 3/4" Outlet / 1/2" Drain	
Rating	IP-65 Panel-Display / IP-67 Sensors	
Regulation	CE / RoHS	
Relative Humidity	20% - 90% (No Condensation)	
Altitude	<6,561 feet (<2,000 Meter)	
Dimensions (HxWxD)	Panel 36 H x 20 W x 9.42 D inches	
Approximate Product Weight	45 lbs	
Shipping Dimensions	42" x 26" x 16" (1067H x 661W x 407D mm)	

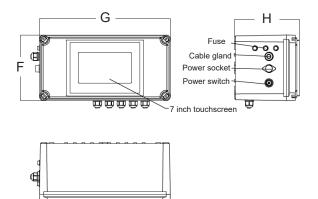
Features

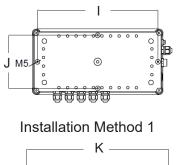
- Ultra-low resolution UT700 turbidity sensor offers a detection light source using warm white LED in 90-degree surface scatter format in accordance with USEPA 180.1 standards.
- FCL700 three-parameter composite sensor for Chlorine (Free or Total), pH and temperature in compliance with USEPA 334.0 guidelines. 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.
- Dual-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 turbidity resolution on the market, and greatly extends the maintenance cycle of the sensor while providing a large buffer capacity to mitigate pressure fluctuations.

APH2O Series Panel Dimensions



APH2O Series Controller Dimensions





Installation Method 1			
K			
L = 0° 0 ° 0 ° 0 ° 0 ° 0 ° 0 ° 0 ° 0 ° 0			

Dim	Inch	cm
F	7.48"	19.0
G	14.96"	38.0
Н	7.42"	18.85
I	13.78"	35.0
J	6.02"	15.4
K	16.22"	41.2
L	8.5"	21.6

APH2O Analyzer Panel

Model Number

APH2O

Multi-Parameter Online Analyzer Panel (Chlorine, Turbidity, pH, Temperature)

Includes: TS10 7" Touchscreen Display, WR-20 Dual Sensor Flow Reservoir, UT700 Turbidity Sensor, FCL700 Chlorine/pH/Temperature Sensor, Assembled Panel with Flowmeter, 110VAC Power Cord.

- Power Requirement 96-260 VAC / 50-60 Hz: 10A Fuse: 200W
- CE, RoHS, EPA-180.1/334.0

Replacement Parts and Accessories



















*500ml 20 NTU Calibration Standard (90008-974)

Sensor Cleaning Solution (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) (90008-983)

^{*500}ml 10 NTU Calibration Standard (90008-973)