WATER DISTRIBUTION MONITORING PANEL (WDMP sc)

The right tool to establish your distribution system's water quality baseline.

Multi-parameter Panel

Multi-parameter on-line panel includes pH, conductivity, chlorine (free or total), turbidity, temperature, and sample pressure.

Simple Installation

Single sample inlet, outlet and power hook-ups for ready-to-install convenience.

Options Available to Suit Your Needs

Available as standard (with the CL17 chlorine analyzer) or reagentless (using the CLF10 sc or CLT10 sc chlorine analyzer). Reagentless water panel is available with or without the UVAS sensor for measuring organics.

Establish Your Distribution System's Baseline

Start by taking measurements to establish a normal baseline at critical nodes, storage reservoirs, booster stations, pump stations, and other key monitoring points. The Water Distribution Monitoring Panel analyzes the right combination of "indicator" parameters recommended by the USEPA. When paired with the Hach Event MonitorTM Trigger System, deviations from the baseline can be detected.

Field-proven Instruments You Can Count On

Reliability is critical for continuous, uninterrupted surveillance of your distribution system. Each instrument in the Water Distribution Monitoring Panel utilizes proven technology to provide readings in real time. All data is logged to the network controller and sent to the Event Monitor and SCADA or other remote locations.

Applications • Drinking water









Hach scientists chose commonly tested parameters and robust instrumentation for the WDMP sc:

CHLORINE – Your Choice of Chlorine Analyzers

CL17 Chlorine Analyzer (Free Chlorine or Total Chlorine) – Every 2.5 minutes, the instrument obtains and analyzes a sample using a DPD colorimetric, USEPA-approved method and provides either a free or total chlorine reading, depending on the instrument's configuration.

CLF10sc or CLT10sc Reagentless Chlorine Analyzer (Free Chlorine or Total Chlorine) – Chlorine measurement with this amperometric analyzer does not require reagents, eliminating the need for routine reagent replacement and waste stream management.

TURBIDITY - 1720E Turbidimeter

Continuously flowing sample enters the turbidimeter body and flows through a bubble trap designed to vent any entrained air

bubbles from the sample stream. Turbidity is measured by directing a beam of light from the sensor assembly into the sample and measuring the scatter of light at 90 degrees with a photocell. The amount of light scattered is proportional to the amount of turbidity in the sample.

pH & CONDUCTIVITY Probes

A patented, differential pH sensor provides information on the acid/base nature of your water. A two-electrode conductivity sensor measures the total ionic concentration in the water.

TEMPERATURE

Temperature is measured to ensure the probes are measuring correctly and for other water quality information.

SAMPLE PRESSURE

The sample pressure is measured to ensure the sample going to the panel is within the specified range.

Adding an Event Monitor, TOC analyzer and auto-sampler will greatly increase the capabilities of your water monitoring system.

The Event Monitor™ Trigger System

The Event Monitor Trigger System lets users:

- Detect, alert, classify and learn real-world events such as water main breaks and caustic overfeeds.
- Detect, alert and classify more than 30 threat contaminants, from cyanide and anthrax to arsenic and pesticides when the WDMP sc is upgraded to a GuardianBlue® Event Detection System.

The Event Monitor Trigger System provides real-time analysis of data from the WDMP sc and the TOC analyzer or the Source Water Monitoring Panel (SWMP). The Event Monitor's breakthrough technology also makes it the only water distribution monitoring system that will detect and alert on unknown water quality deviations. This allows the system to warn operators about foreign agents, unidentified contamination and operational events never previously encountered.



Event Monitor™ Trigger System

The astroTOC™ UV TOC Analyzer

The astroTOC Analyzer is one of Hach's most sophisticated water quality sensors; it greatly enhances the detection and classification capabilities of the Event Monitor Trigger System. When combined with the Water Panel, the TOC Analyzer exponentially increases the system's sensitivity to organic chemicals, resulting in a unique early warning system that is one of the most innovative in the industry.



astroTOC UV TOC Analyzer

Auto-Samplers

The Automatic Sampler is an integrated part of any comprehensive water distribution monitoring system.

The Sampler is also an essential component of the Event Monitor Trigger System. When the Event Monitor triggers on significant water quality deviations, it instantly signals the Sampler to obtain water samples at designated monitoring locations. This give you the ability to perform additional forsenic analysis to confirm an event or identify an unknown contaminant.

Hach offers a wide range of simple, flexible, dependable samplers available in portable, refrigerated or all-weather refrigerated configurations to meet your sampling requirements.



On-Line Auto-Sampler

Specifications*

Solution Types

Drinking water, raw and treated

Parameter Ranges pH 0 to 14

 $\begin{array}{lll} \mbox{Conductivity} & \mbox{0 to 2000 } \mbox{ } \mbox{$

0 to 10 mg/L CLF/T10

Pressure 0 to 150 psi Temperature -20 to 200°C

System Specifications

Controller sc1000 digital controller

Sensor Type(s) Digital output

Sensor to Controller

Distance

1000 meters, per RS-485

Mechanical

Mounting Options Wall or rack mounting

Process Connections Sample Inlet

1/2" OD tubing or 3/8" NPT

Sample Drain

3/4" NPT or hose barb

Sampler Connection

1/4" NPT connection on inlet manifold

Weight 65 lbs

Dimensions 22" x 51.5"

Cleaning Method Damp cloth
Sample Temperature 5 to 40°C

Rating

Sample Pressure Rating 20-100 psi (If your sample pressure is

higher than 100 psi, or is highly variable, use the optional pressure regulator accessory PN 6846600.)

Min/Max Flow 400-600 mL/min

Electrical Power

AC Voltage Range 115/230 Vac 60 Hz for line-powered

instruments (CL17)

Max Power 90 VA Max for CL17

30 VA Max for the other electronics

Display

sc1000 controller display module, optional Event Monitor

Trigger system

Communication

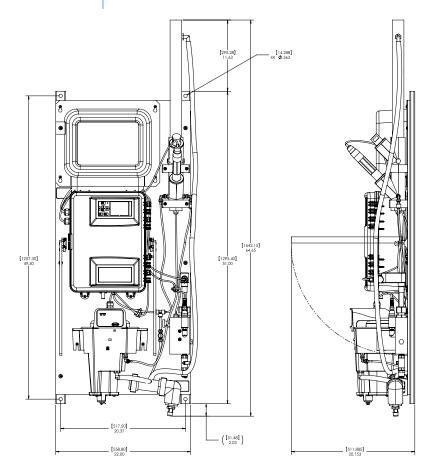
Type RS-485

Protocol MODBUS®

*Subject to change without notice.

Installation/Dimensions

The WDMP sc comes fully assembled on a corrosive-resistant ABS panel with fiberglass mounting rails for easy installation onto a wall or rack. Simply connect the sample line (1/2" OD tube, factory supplied) to the inlet port and run a waste line (3/4" ID reinforced PVC hose) from the outlet port to a drain. The total sample flow requirement is 400-600 mL/min. A 115V, 60Hz power source is required. Total power consumption is 500VA maximum.



Ordering Information

6846000 WDMP sc

Panel comes with CL17 chlorine analyzer (specify free or total chlorine), conductivity sensor, pH sensor, and sc1000 digital controller with MODBUS®. Also included: start-up kit, 10 feet each of inlet and drain tubing, hose clamp, and manuals.

6846050 Reagentless WDMP sc

Panel comes with CLF10 sc or CLT10 sc (Free or Total) chlorine analyzer, conductivity sensor, pH sensor, and sc1000 digital controller with MODBUS[®]. Also included: start-up kit, 10 feet each of inlet and drain tubing, hose clamp, and manuals.

Available with optional UVAS sc sensor for

measuring organics.

6846010 WDMP sc without reagents

Recommended when shipping outside the U.S. The reagents are not included, so the hazardous shipment weight can be reduced. Please order reagents and calibration standards (if necessary) separately to obtain the proper items for start-up.

6846200 WDMP sc Start-up Kit

Included with PN 6846000, or can be ordered separately if you require additional kits. Includes buffers, reagents, and calibration accessories for the first month of operation.

6846300 WDMP sc Maintenance Kit

Includes all the necessary items to perform routine

maintenance for the first six months.

NOTE: Chlorine reagents, required for the standard WDMP sc, last one month and must be ordered separately. Specify free chlorine reagent set (PN 2556900) or total chlorine reagent set

(PN 2557000).

For a custom panel, please contact your local Hach Regional Sales Manager.

Accessories

6846400 ORP Accessory Kit

Includes digital ORP sensor (Ryton body, 3 ft. cable

length) and ORP solution (200 mV, 500 mL).

6846600 Pressure Regulator

Regulates variable or high pressure sample down to a consistent pressure. Recommended for sample pressure above 100 psi or in applications with

highly variable pressure.

6844600 WDMP sc Mounting Rack, Wheeled

Includes attachment plate for sc1000 controller.

6840000 Probe Plug

Additional Instruments to Optimize System

6840200 Event Monitor

CGBASE CityGuard Software

For monitoring and controlling remote water quality stations that have an Event Monitor.

H-6196-1030DS TOC Analyzer for WDMP sc, 0-25 mg/L, 115V

Includes 2 UV lamps, window and reagent level sensor in a powder-coated steel enclosure.

H-6196-1030 TOC Analyzer for WDMP sc, 0-25 mg/L, 230V

For use outside the United States, order with

preference pack 6P95-211-00.

4300-0008 Purge Gas Generator for TOC Analyzer, 115V

4300-0009 Purge Gas Generator for TOC Analyzer, 230V

007182 Portable Sampler007183 Refrigerated Sampler

007184 All-Weather Refrigerated Sampler

HACH COMPANY World Headquarters: Loveland, Colorado USA

 United States:
 800-604-3493 tel
 970-669-2932 fax
 orders@hach.com

 Outside United States:
 970-669-3050 tel
 970-461-3939 fax
 int@hach.com



hachhst.com



