

# Hach Event Monitor™ Event Detection for Source Water and/or Distribution Water

## Features and Benefits

### Analyzes Water Quality Data from Online Sensors Monitoring Source or Finished Water

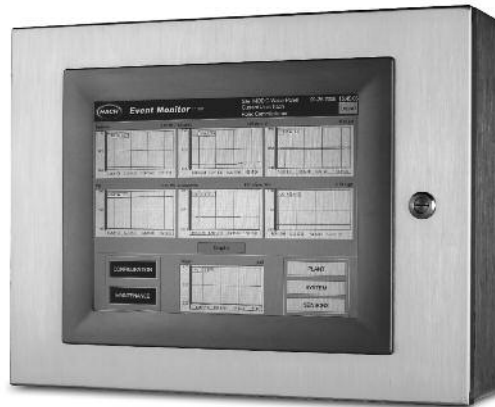
Offering more than just event detection, the Event Monitor integrates multiple sensor outputs from the Water Distribution Monitoring Panel (WDMP sc) or the Source Water Monitoring Panel (SWMP sc), and astroTOC™ UV Online TOC (Total Organic Carbon) Analyzer. A single trigger signal is then calculated from these outputs. Intelligent software streamlines data from the instruments, interpreting the significance of water quality deviations from the established baseline and alerting operations personnel to “events” in their water system. The trigger threshold is adjustable, and can be increased or decreased depending on the system’s sensitivity. Users can name fingerprints specific to their water system in the Plant Library, which stores information your system has dealt with in the past.

### “Learns” Water Quality Events

The patented Event Monitor from Hach Company identifies deviations in water quality due to operational fluctuation and creates a “fingerprint” for each instance. This fingerprint is then catalogued in the monitor’s Plant Event Library. In addition to storing information, the Plant Library enables the Event Monitor to learn water quality events specific to your water system. Operators can label event fingerprints for simplified identification, should the event recur. With its demonstrated ability to “learn” and be “taught” specific system dynamics, the Event Monitor promises to become an invaluable tool for water utilities looking to lower system maintenance costs and streamline plant operations while improving water quality and customer satisfaction.

### Analyzes Data from WDMP sc or SWMP sc, and astroTOC UV On-line TOC Analyzer

The Water Distribution Monitoring Panel (WDMP sc) and Source Water Monitoring Panel (SWMP sc) continuously monitor drinking water either raw or finished, measuring parameters that can signal changes in your water quality profile. Analyzing all of the data from sensors to identify when and where there is a significant change from the established baseline is a significant task. The Event Monitor System provides real-time analysis of data from the sensors, eliminating the need for additional on-site statistical evaluation of system data. The trigger signal is a continuous indication of water quality compared to baseline quality. The addition of an astroTOC™ UV On-Line TOC Analyzer for continuous total organic carbon monitoring optimizes system surveillance. The reagentless UVAS probe can also be used to monitor for the presence of organics in the system.



Event Detection

- *Real-time analysis of data from Water Distribution Monitoring Panel sc, Source Water Monitoring Panel sc, and astroTOC UV On-line TOC Analyzer*
- *Trigger signal shows current deviation from water quality baseline, in real-time*
- *Profile and catalog events due to operational or catastrophic excursions and identify a reoccurrence*
- *Easy to adjust the trigger threshold, based on the sensitivity of the water system*
- *New adaptive tuning feature, allows you to minimize false positives for noisier systems*
- *Utilize the Plant Library as a way to transfer operational knowledge from the retiring workforce to new employees*

DW

### Easily Networks with SCADA or PLC System

The Event Monitor Trigger System provides digital output of the individual parameter data, as well as the integrated trigger signal and alarms. The system is also easily configured to trigger an autosampler when the system alarms for further analysis.

### Control Remote Event Monitors with CityGuard™ Virtual Command Center

CityGuard allows you to interact with Event Monitors as if you were standing in front of them from any PC with internet access. CityGuard allows you to see the status of multiple monitoring stations at a glance. With this information you can:

- *Visualize the deviant water quality and the affected area*
- *Accelerate the public health response*
- *Minimize the impact to human populations*
- *Reduce damage to infrastructure*
- *Reduce the cost of remediation*
- *Restore water service more quickly*

The triggering software has been tested thoroughly in large flow loops designed to simulate real distribution systems. Field evaluation in real distribution systems further demonstrates the systems ability to identify deviations in water quality due to operational fluctuations.

DW = drinking water



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## Specifications\*

### Alarms

Trigger Signal Alarm; High/Low Parameter Alarms; Frozen Parameter Alarm; Sensor Off-line Alarm; Agent Alarm; Plant Alarm; Missing Sensor; Invalid Data

### Power Requirements

100 - 230 Vac

### Operating Temperature

5 to 40°C

### Storage Temperature

-20 to 65°C

### Humidity

90% at 40°C max

### Environmental

Industrial grade, meets NEMA 4 and IP65 for indoor use

### Communications

RS-485 MODBUS®

### Dimensions

21"(w) x 19.5"(h) x 7"(d)  
(53 cm x 50 cm x 18 cm)

### Weight

50 lbs (23 kg)

### Enclosure Material

316 stainless steel

### Mounting

Wall mount or rack mount

### Display

15" touch screen

### Certification

Listed to UL 1010 by ETS, CSA, CE

### Instrumentation

Interfaces with Hach WDMP sc or Source Water Monitoring Panel sc; astroTOC UV On-line TOC Analyzer; Hach Sigma All-Weather Autosampler

\*Specifications subject to change without notice.

## Ordering Information

### 6840200 Event Monitor

Industrial stainless steel computer with touchscreen interface, 115 or 230 Vac. Comes with RS-485 terminals for WDMP sc or SWMP sc and user manual.

## Water Monitoring Instrumentation & Accessories

### 6846000 Water Distribution Monitoring Panel sc

Panel features sc1000 digital controller; probes for conductivity and pH; chlorine analyzer (free or total, reagents or reagentless); turbidity analyzer; pressure sensor; temperature sensor.

### SWCUSTOM Source Water Monitoring Panel sc

Decide what you want to monitor at the intake of your drinking water plant with this customized panel. Currently available parameter options include: ammonium, conductivity, dissolved oxygen, nitrate, oil-in-water, organics, ORP, pH, and turbidity. For more information, visit [www.hachhst.com](http://www.hachhst.com).

### CGBASE CityGuard Virtual Command Center

For more information on CityGuard software, astroTOC UV On-line TOC Analyzer, Hach Sigma Autosamplers, and other accessories to enhance your surveillance capabilities, please contact your Hach regional sales manager.

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In the interest of improving and updating its equipment, Hach Company reserves the right to alter specifications to equipment at any time.



*At Hach, it's about learning from our customers and providing the right answers. It's more than ensuring the quality of water—it's about ensuring the quality of life. When it comes to the things that touch our lives...*

*Keep it pure.*

*Make it simple.*

*Be right.*

*For current price information, technical support, and ordering assistance, contact the Hach office or distributor serving your area.*

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*Hach Homeland Security Technologies focuses on the development of innovative and breakthrough technologies that can be used to detect accidental or intentional contamination events, terrorist activity, and improve general operational control in water.*



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