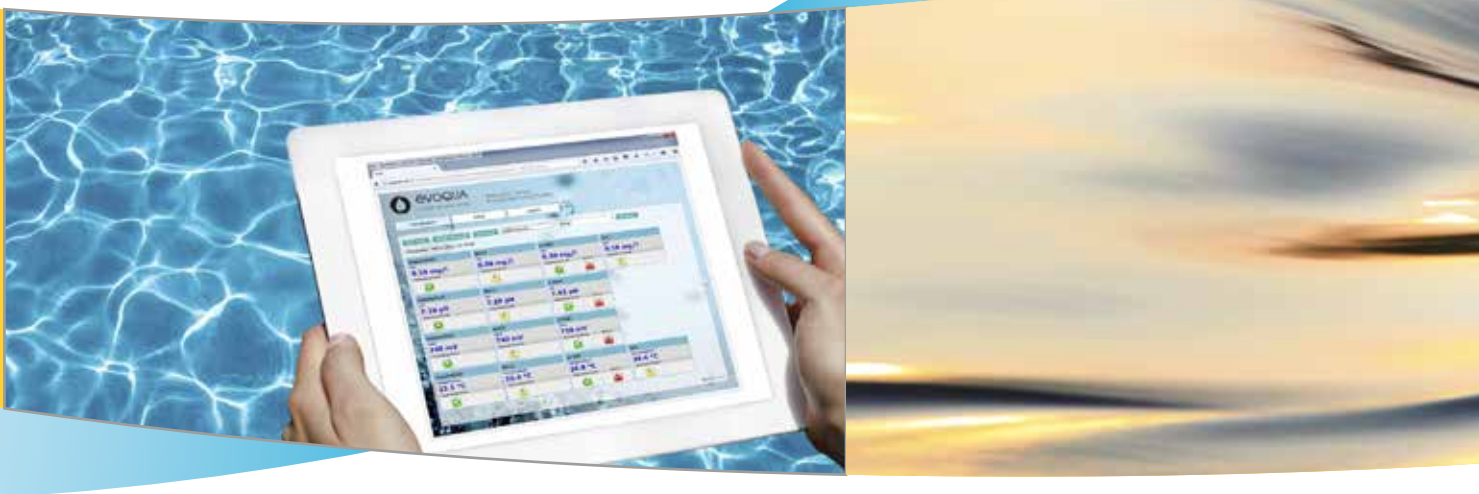


PROCESS MONITORING SYSTEM

WALLACE & TIERNAN® DATA MANAGEMENT SYSTEMS

The Process Monitoring System allows the facility staff an overview of all installed Wallace & Tiernan® disinfection systems including a complete water chemistry status as it relates to disinfection on a single screen. All disinfection systems can be visualized through Web or WIFI capable devices such as PC's, laptops, tablets or smartphones. Functionality includes not only read but also write commands allowing the user to make important changes to any of the connected systems via a remote but password protected access. The Process Monitoring System also provides historical data management of pertinent measurements that are archived to a memory card.

Several intuitive visualization screens can be viewed for an overview of all connected devices and include freely configurable group views, trend and bar graph views as well as a parameter list view that depicts measured values and adjustable parameters.

The Wallace & Tiernan systems connect to the Process Monitoring System via a RS485 bus connection. Access to the device is secured by password protection of up to four user levels. Communication to PC's and other external devices is via a standard LAN or WLAN connection. A standard internet browser such as Internet Explorer, Mozilla Firefox or Google Chrome can be used for visualization on the external device which eliminates the need for a special software.

Measurement data of devices connected to the Process Monitoring System are stored in monthly data files using the CSV format, which allows for easy data importing to Excel or other databases. These historical data files are updated automatically on a daily basis and can be downloaded via the web interface or copied directly from the removable memory card.

Key Benefits

- Intuitive visualization of several disinfection processes on a single configurable screen
- Visualization and adjustment of pertinent parameters on a web based interface while chemistry control is maintained to ensure reliable and safe operation
- No special software or software licenses required
- Smartphone or tablet capable via a WI-FI or Internet connection
- Connectivity to Wallace & Tiernan analyzers and chemistry controllers as well as Barrier® M UV and OSEC® systems

PROCESS MONITORING SYSTEM

MULTIPLE APPLICATION SOLUTION

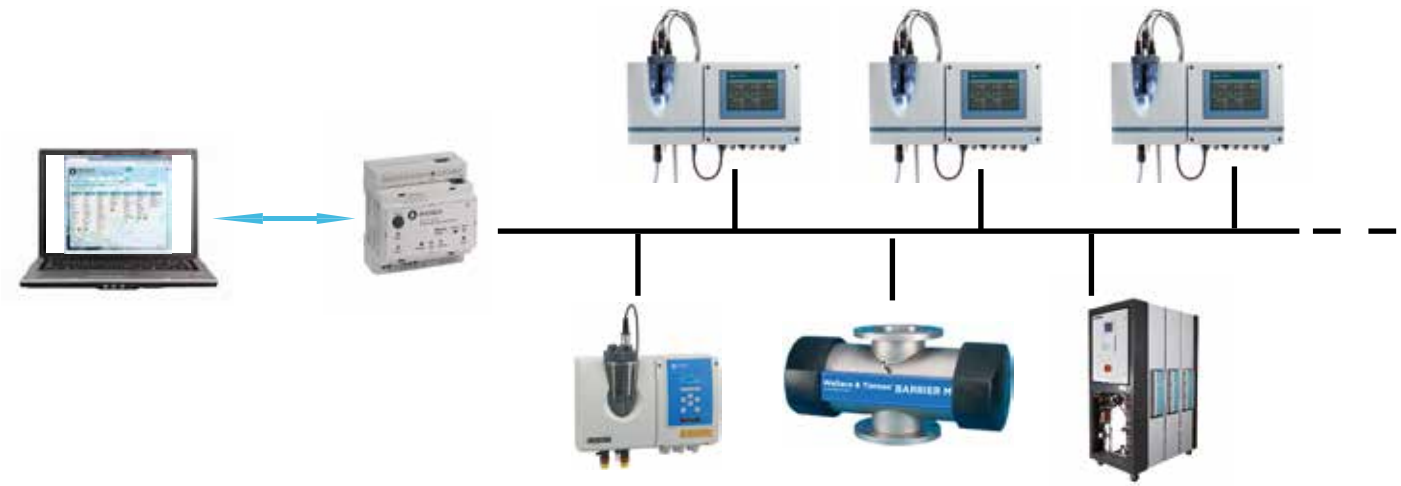
Multiple points on one device

- All screens can be accessed from a tablet
- Alarm notification can be send via Email
- All applications can be visualized from a single interface

Features

- Data visualization and parameter adjustments using an integrated web server
- Secured E-mail function for scheduled status reports or event driven e-mail notifications triggered by preconfigured alarms
- Data archiving to a removable memory card
- Archive data files are remotely accessible
- Remote device configuration and maintenance
- Password protection for secure operation

THE PROCESS MONITORING SYSTEM: HOW IT WORKS



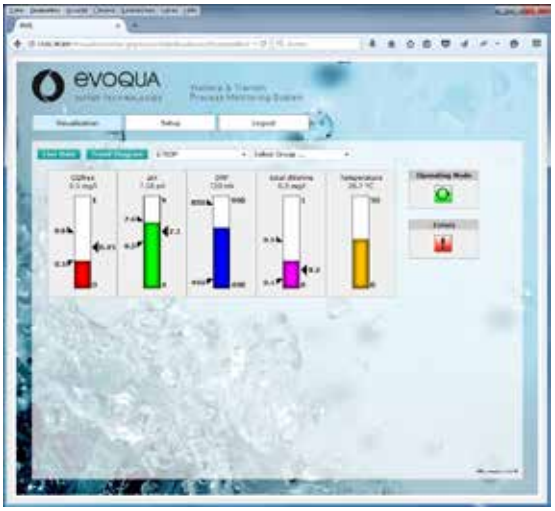
THE PROCESS MONITORING SYSTEM COLLECTS, ARCHIVED AND SHOWS THE PROCESS DATA FROM 32 UNITS VIA RS 485 INTERFACE. THE UNITS CAN BE VISUALIZED THROUGH WEB CAPABLE DEVICES LIKE PCS OR LAPTOPS VIA LAN OR WLAN CONNECTION (NETWORK).

ALL TYPES OF VISUALIZATION AT A GLANCE

STARTING PAGE

FREELY CONFIGURABLE GROUP VIEW

TREND VIEW



BARGRAPH VIEW

LIST VIEW WITH MEASURED VALUES AND PARAMETERS

GROUP VIEW

Requirements

Standard web browser (Internet Explorer, Mozilla Firefox®, Google Chrome® and Apple Safari® web browsers are supported)

Installation

- Connection of Wallace & Tiernan® units via RS 485 interface
- Instruments are automatically identified by Bus-Scan and the instrument specific web pages are generated

Connections

- Direct connection via LAN on PC, laptop
- Connection via WLAN USB stick
- Ethernet: configurable IP adjustment or DHCP 10/100 Base-T IEEE 802-3
- Internet: via router/VPN connection

Supported units

- Wallace & Tiernan® units with RS 485 interface like DEPOLOX® Pool E 700 P, DEPOLOX Pool, DEPOLOX Pool Compact, MFC, SFC, Barrier® M, OSEC®-NXT
- A total of max. 32 bus addresses
- RS 485 bus cable length 1200 m / 4000 ft max.

Types of visualization

Trend and Bargraph view, List view with measured values and parameters as well as group display, free configurable view

Interfaces

- Ethernet 10/100 BaseT IEEE 802.3 (RJ45 connector)
- RS 485 port for connection of the PMS bus device, connection via screw terminals, termination integrated, can be activated by a DIP switch
- USB port for USB WIFI adapter

Protocols supported

- HTTP – Hypertext Transmission Protocol for the transmission of web pages
- SMTP – Simple Mail Transfer Protocol for the transmission of e-mails (SSL/TLS)

Memory card

- SD cards with a capacity of up to 32 GB (capable of saving 10 years' worth of data for 32 bus devices)

Security

- Four user levels, protected by a login name and password

Power supply

10 – 30 V DC; max. power consumption 4.6 W

PHYSICAL CHARACTERISTICS

Dimensions (W x D x H):

88 x 90 x 60 mm / 3.4 x 3.5 x 2.4''

Weight: approx. 200 g / 0.4 lb

Installation:

Can be installed vertically or horizontally on a 35 mm top hat rail in accordance with EN 50022, e.g. standard distribution cabinet

Enclosure: IP 20

Operating temperature: 0 – 50 °C / 32 – 122 °F

Relative humidity: 5 – 95 % non-condensing

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EVOQUA WATER TECHNOLOGIES

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