

# Web-Based Remote Monitoring & Datalogging

## WebAlert®

### OVERVIEW

WebAlert was developed to meet the increasing demands for improved operational efficiencies and enhancements to service programs that can be gained by continuous monitoring of remote equipment and systems.

WebAlert seamlessly web-enables your installed equipment, providing local and remote access to vital system information, without the need to physically visit remote sites. WebAlert monitors and datalogs analog and digital inputs from virtually any installed device, and notifies on-site and remote personnel of any system abnormalities.

The data handling and communications options in WebAlert are truly innovative. Ethernet and USB are standard features, therefore local or plant networked PC's can be connected and communicating with WebAlert in true Plug & Play fashion. Authorized operators and quality control personnel can view LIVE system parameters and historical graphs, as well as receive emailed alarms, reports or datalog files.



### SUMMARY OF KEY BENEFITS



WebAlert integrates the functions of a monitor, data logger and auto-dialer in one low cost package. It is easily customized to your application without the need for a programmer.



VTouch® provides quick, centralized 24/7 awareness of account status with the ability to LIVE Connect to any of your controllers in the field with one simple mouse-click.



No subscription service, monthly fees, or proprietary software is required. View data and program settings with just a standard web browser.



Monitor up to six (6) 4-20mA signals and six (6) discrete inputs.



Access live or stored data remotely within the facility (LAN) or from anywhere in the world.



System status reports and datalog files can be emailed automatically on a regular basis. Instant alarm notification via cell phone text message, email, or local alarm relay.

## WebAlert® Series | Web-Based Remote Monitoring and Datalogging

### » Convenience

- WebAlert has been designed with convenience and ease-of use in mind. It has extensive built-in datalogging capability so there's no need for a separate datalogging device. The data can be retrieved automatically (email Excel file attachment) or manually, through the convenience of a standard USB flash disk.



Simple data extraction  
to USB stick

### » Simplicity

- Unlike PLC's or similar devices, WebAlert does not require a software programmer for customization to your application. This reduces upfront costs and eliminates recurring expenses for software maintenance. Commissioning is as simple as connecting with a laptop and following the intuitive menus to configure the WebAlert to meet your needs.
- A variety of reporting options can be utilized to meet your needs. A system summary report provides a snapshot of current conditions and alarms. A datalog report can be sent on a regular basis for historical trending. In addition, email and cell phone text alarm messages can be sent.



Receive spreadsheet datalogs  
as an attachment to an email  
at user-defined time periods.



Receive alarms  
via cell phone  
text messaging.

### » Remote System Monitoring

- WebAlert will monitor up to six (6) 4-20mA signals and six (6) discrete inputs, giving you instant access (from anywhere in the world) to vital system parameters, including level, flow, pressure, temperature, or any other device with a standard 4-20mA or discrete output.

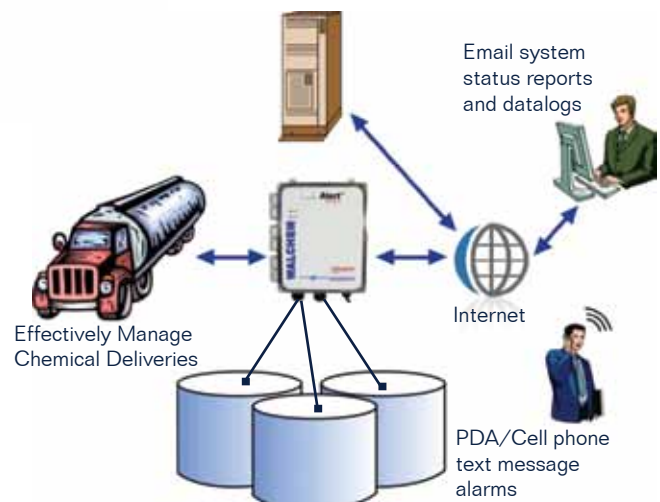


### Online Device Management Service

- Critical Process Values
- Summary View of Devices
- One Click Live Connect
- Alarm Status
- Monthly Reports

### » Remote Chemical Inventory Management

- WebAlert is perfect for remote chemical inventory management. Level sensors and switches from a variety of sensing devices may be connected directly to the WebAlert, providing live information about chemical inventories, which makes management of chemical deliveries efficient, prevents down-time in critical processes, and provides immediate notification of alarm conditions. An online device management service from Walchem will be available to enable the user to view all of their locations on a single web page.



## MEASUREMENT PERFORMANCE

Range:	3.75-20.25 mA
Resolution:	0.03 mA
Calibration:	±1 mA

## MECHANICAL SPECIFICATIONS

Enclosure:	Polycarbonate
NEMA Rating:	NEMA 4X (IP65)
Ambient Temperature:	32 to 140°F (0 to 60°C)
Storage Temperature:	-20 to 176°F (-29 to 80°C)
Shipping weight:	4.5 lbs (2 kg) (approximate)

## ELECTRICAL

Input Power:	100-240VAC ±10%
	1.0A, 50/60 Hz
	Fuse 1.0A 5 x 20mm

### Input Signals:

<b>State-Type Digital Inputs</b>	Electrical: Non-Isolated 5 VDC with 301 K ohm pull-up Typical response time: < 10 seconds Devices supported: Any isolated dry contact (i.e. relay, reed switch) Support on inputs: 1 through 6 Types: Generic input
<b>Low Speed Counter-Type Digital Inputs</b>	Electrical: Non-Isolated 5 VDC with 301 K ohm pull-up, 0-10 Hz, 50 msec minimum width Devices supported: Any device with isolated open drain, open collector, transistor or reed switch Support on inputs: 1 through 4 Types: Contacting flow meter, Generic counter
<b>High Speed Counter-Type Digital Inputs</b>	Electrical: Non-Isolated 5 VDC with 301 K ohm pull-up, 0-400 Hz, 1.25 msec minimum width Devices supported: Any device with isolated open drain, open collector, transistor or reed switch Support on inputs: 1 through 4 Types: Paddlewheel flow meter, Generic counter
<b>Analog Inputs (1-6)</b>	4-20 mA, 2-wire or 3-wire, internally powered by 24 VDC, 110 ohm input resistance, 1000 ohm maximum load, Typical response time < 10 seconds

### Outputs:

<b>Solid State relay</b>	Dry contact, 0 to 40 VDC, No AC voltage, 150 mA maximum load
<b>Digital</b>	USB, Ethernet, 10 Base T

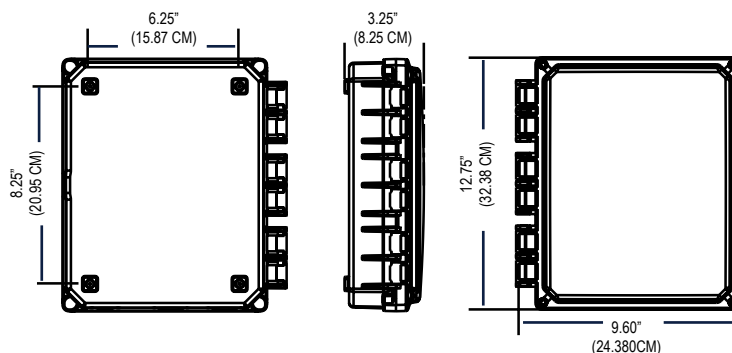
## AGENCY CERTIFICATIONS

UL	ANSI/UL 61010-1:2004, 2nd Edition*
CAN/CSA	C22,2 No.61010-1:2004 2nd Edition*
CE Safety	EN 61010-1 2nd Edition (2001)*
CE EMC	EN 61326 :1998 Annex A*

Note: For EN61000-4-6,-3 the controller met performance criteria B.

\*Class A equipment: Equipment suitable for use in establishments other than domestic, and those directly connected to a low voltage (100-240 VAC) power supply network which supplies buildings used for domestic purposes.

## DIMENSIONS



# VTouch® Account Manager

VTouch is a collection of technologies designed for companies offering managed water treatment services. The VTouch solution allows service companies to more effectively manage remote accounts by significantly reducing the complexities associated with the deployment of water treatment service programs based around communicating products.

The VTouch Account Manager is fully synchronized with Walchem's web-based controllers, making set-up and configuration simple and fast. Just specify the type of remote communications needed for new or existing controllers and Walchem takes care of the rest. No need to sort out and track complicated and constantly moving cellular data or dial-up ISP plans from large companies with poor customer service and unpredictable monthly charges. VTouch solves these problems by bundling the communications services, giving you a completely turn-key solution.

The innovative, fully synchronized nature of VTouch provides you with a quick, centralized 24/7 awareness of account status with the ability to LIVE Connect to any of your controllers in the field with one simple mouse-click, regardless of connection type! No phone numbers or IP addresses to remember.

## VTouch Account Manager: 'Smart' Service

- On-line, web-based summary of account status
  - Process values continuously updated including past 24 hour min, max and average values
  - Alarm status
- One-click LIVE Connect to any device in the field for full view and reconfiguration
  - Analysis, troubleshooting, adjustments
- Seamlessly organize devices according to a process(es), facility, customer, etc.
- User "access" and "permissions" management
- Eliminates surprises during 'routine' visits
- Makes service PROACTIVE not reactive
- SAVES TIME! Plain & Simple

Summary view of all monitored systems

**Custom named facilities** (points to 'Best Hotel')

**Custom 'processes' defined for each facility** (points to 'Cooling Tower - Process Cooling' and 'Boiler - WM1')

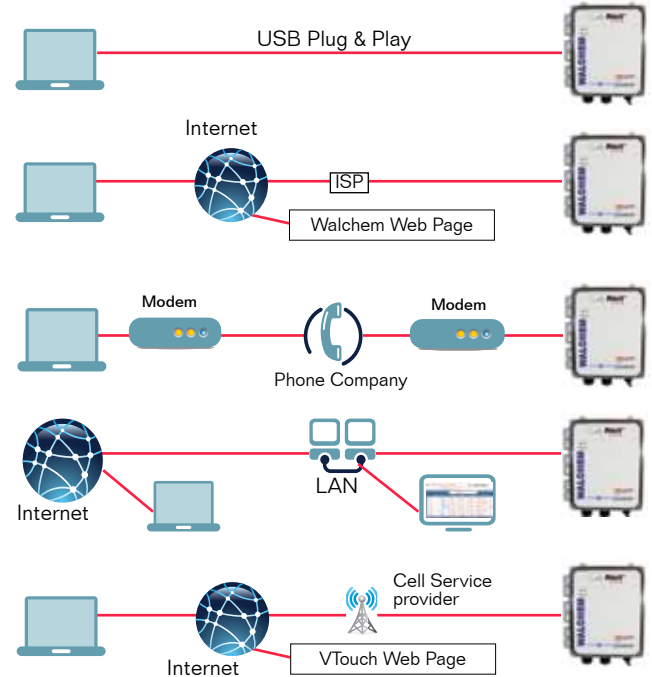
**Critical process data, units & custom names sent from devices, synchronized automatically in VTouch. No lengthy set-up required!** (points to the data table for 'Wastewater - Plant 1')

**One click and you connect LIVE to your device, regardless of connection type.** (points to the 'LIVE Connect' icon for 'Wastewater - Plant 1')

Processes						
<b>Best Hotel</b>						
Cooling Tower - Process Cooling						
Last Value	Alarms	Conductivity Sensor (Measure) (μS)	Backup Conductivity (Measure) (μS)	ORP (Measure) (mV)	Flow Switch (State) ( )	
8/18/09 5:32:53 PM		1218.74	1206.13	-329.27	Flow	
<b>Best Hotel 2</b>						
Boiler - WM1						
Last Value	Alarms	Boiler 1 (Measure) (μS)	Boiler 1 (Minimum) (μS)	Boiler 1 (Maximum) (μS)	Boiler 1 (Average) (μS)	Feedwater Flow (Total) (gal )
8/18/09 5:32:27 PM		3131.75	3019.82	3436.33	3318.16	2102144.75
<b>Wastewater - Plant 1</b>						
Last Value	Alarms	Influent pH (pH)	Effluent pH (pH)	Level (gal)	Flow (Total) (gal)	Effluent ORP (mV)
8/18/09 5:32:27 PM		5.41	7.31	2416.00	26243.00	-251.60

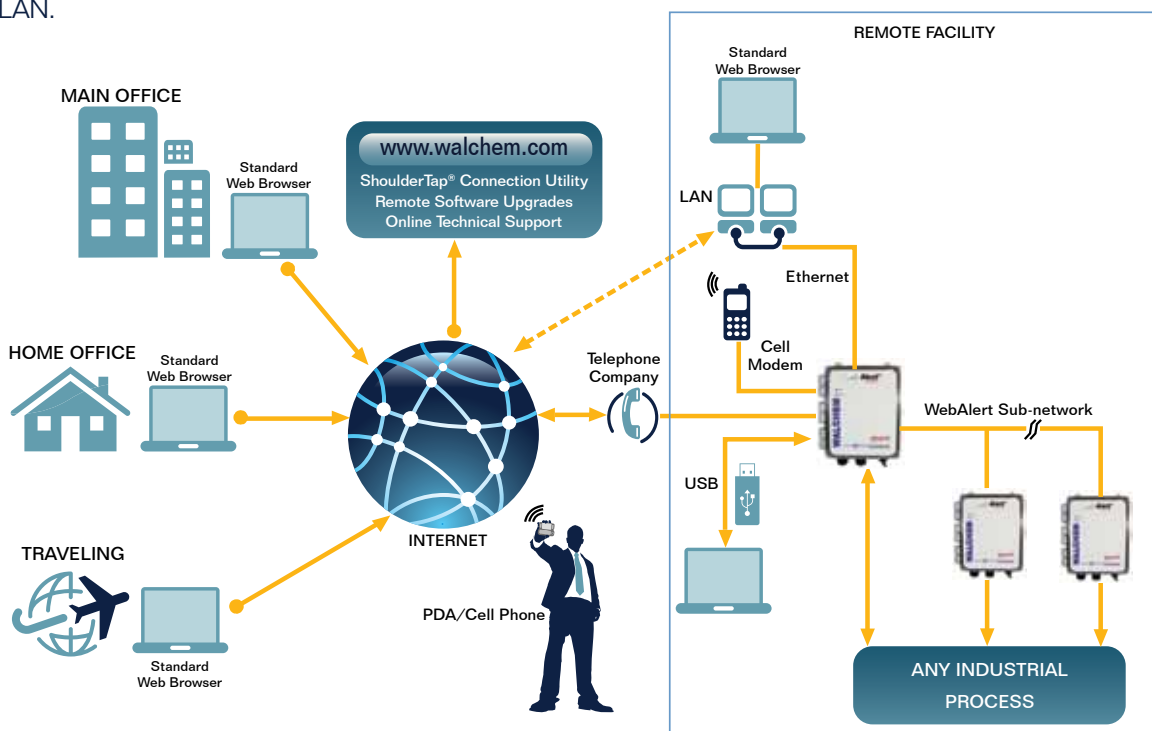
WebAlert's embedded web-server and TCP/IP Internet communications make it possible to establish local or remote communications with a standard web browser from a laptop or PC. USB and Ethernet are standard features, allowing easy on-site access for plant personnel and system operators. Remote communications can be accomplished via the Internet or over a phone line with the PSTN (landline) or Cellular modem option. WebAlert supports simultaneous multi-user access, which makes it possible for personnel from local and remote locations to view live data, troubleshoot, and configure the system more efficiently than ever before. A graduated password protection system allows users varied degrees of access from "view only" to "full configuration".

- **USB Plug and Play:** For local monitoring and reconfiguration of your WebAlert via LapTop or dedicated on-site PC.
- **ShoulderTap® Internet Communications:** For monitoring and reconfiguration of your WebAlert remotely via the Internet (requires landline modem card option).
- **DirectTap Modem-to-Modem:** For remote monitoring and reconfiguration of your WebAlert using traditional modem-to-modem communications (requires landline modem card option).
- **Ethernet:** For monitoring and reconfiguration of your WebAlert via Local Area Network or remotely via the Internet
- **Cellular:** For monitoring and reconfiguration of your WebAlert remotely via the Internet (requires cell modem and VTouch option).



## ETHERNET NETWORKING

By using the on-site Local Area Network (LAN) or by connecting the WebAlerts together via Ethernet, you can access all of the WebAlerts on a network from a single phone line or IP address. The "Master" WebAlert automatically detects the other WebAlerts and serves as a window to the "slaves" on the network, greatly reducing the cost and time associated with device configuration and running phone lines to each device. DHCP is supported to enable WebAlert to automatically obtain an IP address from the LAN.





## ORDER INFORMATION

WA500 — ☐ Wiring ☐ Comms Hardware ☐ Comms Software

### WIRING

H = Hardwired, cable glands  
P = USA power cord w/cable glands

### COMMUNICATIONS (USB & ETHERNET STANDARD)

N = No additional communications  
M = Modem card  
G = Cellular modem card (GPRS)

### COMMUNICATIONS SOFTWARE

N = None  
1 = Ethernet Networking Master Capability



#### Webmaster®ONE

WebMasterONE is the most advanced online cooling tower and boiler controller in the water treatment industry. The flexible multi-I/O platform allows you to control multiple cooling towers, boilers, closed loops, and condensate lines with just one controller. An extensive assortment of integrated communications and data handling features are included that enable water treatment professionals to provide more effective water management services to their customers.



#### Metering Pumps

The E-Class is the most innovative and comprehensive metering pump product line in the world. Over 50 years of pump experience and a commitment to superior mechanical design has led to development of many industry firsts, including 360 stroke-per-minute technology, IP67 waterproof construction, and the world's highest capacity solenoid metering pumps.



#### WIND WebMaster® Industrial Water Controllers

Walchem's WebMaster Industrial (WIND) Controller sets a new standard for Industrial Water Treatment Controllers. WIND has a flexible multi-I/O platform, a wide range of analytical sensor measurement capabilities, and an extensive assortment of integrated communications and data handling features.



#### WebAlert Remote Monitor

Walchem's WebAlert is the first stand alone remote monitoring device that can web enable your installed equipment without having to replace or upgrade it.

## ABOUT US

Walchem integrates its advanced sensing, instrumentation, fluid pumping and communications technologies to deliver reliable and innovative solutions to the global water treatment market

Our in-house engineering is driven by quality, technology and innovation. For more information on the entire Walchem product line, visit: [www.walchem.com](http://www.walchem.com)



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