

# Smart Alarm Software

Secure Real-Time Monitoring, Analysis and Control



## UCME-OPC - Software for superior industrial automation control

UCME-OPC seamlessly interfaces with any SCADA, DCS, OPC or DDE server to provide efficient and secure two-way communication between SCADA, DCS or OPC platforms and users via SMS, push notification, email, or voice over telephony.

# UCME-OPC - Four Ways to Keep You Covered

## Alarm Notification

### *Via multiple channels*

UCME-OPC is advanced alarm notification software that can send alerts via:

- **Voice over telephony** - voice message via phone, concurrently dialing up to four recipients, and enabling alarm acknowledgement and tag value retrieval or change during the call
- **SMS** - text message to any phone
- **Push notification** - using familiar messaging interface and alerts on any smartphone (Android or iOS), PC or tablet
- **Pager** - text message to a pager
- **Email** - text message to email
- **Voice annunciation** - plays a message over the computer's speakers
- **Active alarm display in any web browser** - see active alarms using custom alarm filter, acknowledge alarms and add remarks/notes
- **WhatsApp** - Text messages to WhatsApp
- **Voice over IP** - sending voice messages using Text-To-Speech technology

## Remote Control

### *For rapid response*

With UCME-OPC, users can respond instantly to alarms via phone, SMS or web browser application. Acknowledge alarms, change set-points, query field values, generate production reports, suspend or resume alarm notifications, and more.

## Alarm Analysis

### *More than simply notification*

UCME-OPC analyses critical alarm parameters, compares values with the desired range, and marks parameters that don't comply. This real-time information is sent directly to a mobile phone or email, enabling rapid response. Event data is easily accessible for analysis via a dedicated web browser application.

## APIs

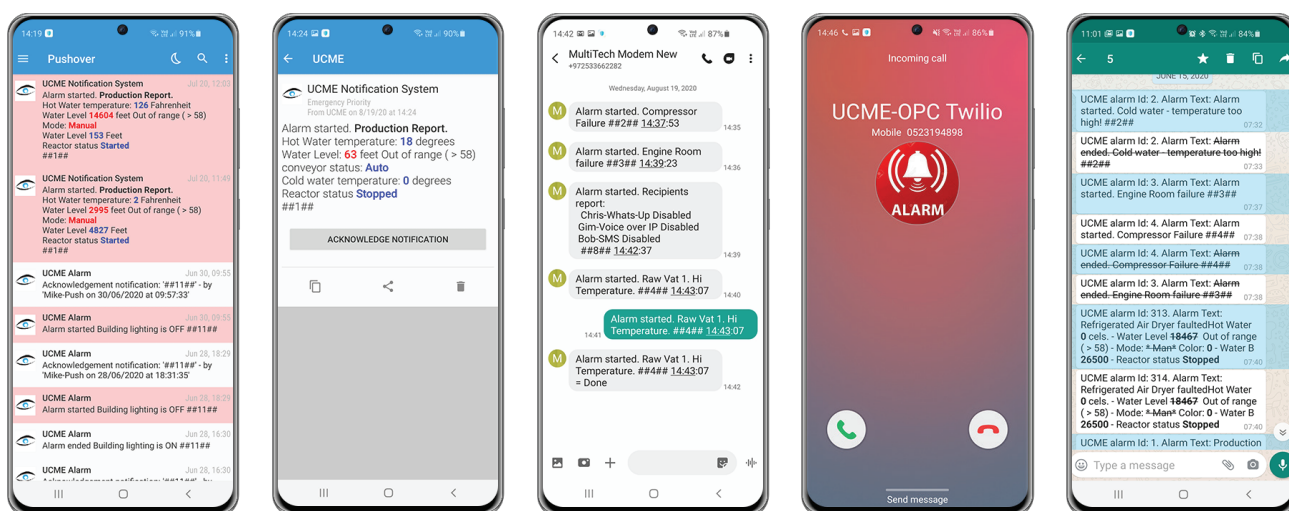
### *API - Notification made easy*

**APIs for developers** - APIs allows you to easily create programs that use the UCME-OPC messaging engine. Send an XML or JSON file from any server on the network. UCME-OPC will do the rest.

## How Can UCME-OPC Benefit You?

- **Remote control** - Innovative capability enables flexible two-way communication for shortened response time and unprecedented efficiency.
- **Sophisticated escalation procedure** - Customizable escalation procedure ensures alarms are delivered to alternate recipients. Remote alarm acknowledgement prevents unnecessary repeat alarm notifications – reducing nuisance and costs.
- **Detailed, real-time alarm analysis** - By providing additional plant floor parameters, UCME-OPC provides you with complete, detailed information at the moment of an alarm, facilitating a more accurate response.
- **Easy alarm import from your SCADA** - Saves the time and effort of manually redefining alarms in UCME-OPC.
- **Reliability and security** - UCME-OPC is active even when you are not logged in. The system automatically reconnects after power failure or OPC server software stoppage.
- **21-CFR-Part 11 compliance** - Complies with FDA regulations, ideal for pharmaceutical and food manufacturers.

## More UCME-OPC Features



- **Runs as a Microsoft Windows service** - The service operates before users log in and continues after log off. If the service fails, recovery actions can be set up, such as restarting the service automatically or restarting the computer.
- **Multiple server connectivity** - UCME-OPC communicates with multiple OPC servers and with industrial automation software (SCADA or DCS) via OPC or DDE.
- **Shifts and special days** - Recipients are notified according to predefined shift schedules, with consideration for changing shift priorities on holidays or other special instances.
- **Alarm database** - Records all alarms, responses and other activities in MS-SQL database. Alarm history may be remotely viewed and analyzed, ensuring complete and thorough monitoring of every activity for enhanced efficiency and flexibility.
- **Log function** - Records all alarms, responses and other activities. Alarm history may be remotely viewed and analyzed, ensuring complete and thorough monitoring of every activity for enhanced efficiency and flexibility.
- **Recipient groups** - Alarms can be sent to pre-defined groups, for more efficient notification and easier alarm maintenance.

## Advanced Options

- **Server watchdog mechanism** - UCME-OPC runs a watchdog mechanism with the OPC or DDE server software. If the OPC server is inoperative, UCME-OPC notifies appropriate users.
- **Master/Standby** - UCME-OPC supports master/standby configuration. UCME-OPC running on the standby PC will send alarms only as backup to UCME-OPC on the master PC.
- **Redundant SMS channels and email servers** - To improve system availability, if UCME-OPC fails to send an email or an SMS using the primary channel, it will automatically switch to the redundant channel to ensure that alarm messages are not lost.

# UCME-OPC - Versatility, Flexibility



No matter where you are, you can leverage UCME-OPC's remote bidirectional control functionality via multiple channels for real time monitoring and control of remote sites.



Scan to see how UCME-OPC can benefit you!

## UCME-OPC Applied

*Raising efficiency, convenience and safety in your industry*

UCME-OPC is the ideal solution for a wide range of industries, including:

- Building management
- Oil and gas
- Chemical
- Electric power generation
- Renewable energy
- Water works and sewage treatment plants
- Factories and production lines
- Fire detection control systems
- Healthcare
- Pharmaceuticals
- Biotechnology
- IT
- Healthcare
- Food and Beverage

## Specifications

### Hardware requirements

- Dual core CPU or higher
- RAM 4G or higher
- HDD 50G or higher
- Internet connectivity (for Voice over IP messaging)
- Internet connectivity (for WhatsApp messaging)
- Internet connectivity (for HTTP-SMS messaging)
- Approved CDMA or GSM cellular modem (USB, Serial or Ethernet)
- Available serial or USB port (external modem)
- Available USB port (for the UCME-OPC security dongle. Soft license is also available)
- Dialogic telephony board (for voice over telephony)
- Available PCI slot (when using Dialogic telephony board)

### Software requirements

Windows® 2012/2016/2019 Server (64 bit), Windows® 10 (64 bit)



## UCME-OPC is 3rd Party Certified!

UCME-OPC has been certified by an independent test lab associated with the OPC Foundation, ensuring it meets the standards specified by the OPC Foundation, and guaranteeing true multi-vendor system interoperability.