# ORION Configuration Software (OCS™ ) Program Version 3

**Kidde Fire Systems**
A UTC Fire & Security Company

**For ORION™ XT Detectors**

## FEATURES

- *Windows®-Based Graphical User Interface for ORION XT Detectors*
- *Allows Real-Time Monitoring, Control and Configuration of up to 127 ORION XT Detectors*
- *Downloads and Displays Smoke History in Graphic Format*
- *Auto-Setup™ Feature Allows Automatic Selection of the Detector's Alarm Sensitivity Threshold at Time of Installation*
- *Configurable for Direct Communication with ORION XT Detectors or via Intelligent Interface Module Network*

- *Monitoring of Detectors at Remote Sites over Phone Lines Using Intelligent Interface Module with Modem.*
- *Rapid Alarm and Trouble Response Even at Maximum Network Size*
- *Two Levels of Password Protection: Owner and Installer*
- *Four Language Selections: English, Spanish, French and Portuguese*

## DESCRIPTION

ORION Configuration Software (OCS™) Program Version 3 is a graphical user interface program which is used for configuration of ORION XT high-sensitivity smoke detection systems. When used in conjunction with an Intelligent Interface Module (IIM), a network of up to 127 ORION XT Detectors and an optional ARIES™ or (or PEGAsys™)  panel can be configured and monitored in real time.

A key feature of the OCS program is its ability to graphically display the smoke level history of ORION XT Detectors—up to 28 days of history can be downloaded and graphed at one time. Sections of the graph can be enlarged to analyze a particular period of time which is a powerful tool in analyzing a fire event. This feature is essential for manually setting the proper alarm levels at time of installation to reduce unwanted alarms.

Another feature of the software is the Auto-Setup™ option. Auto-Setup automatically sets the Detector's optimal alarm sensitivity threshold at the time of installation. After an ORION XT Detector is completely installed, an installer can choose an Auto-Setup learning time period of fifteen minutes to two weeks. When the learning time period has elapsed, OCS will automatically select the alarm sensitivity threshold based on the smoke levels stored during the learning time period. As a result, the ORION XT Detector is easily configured to the optimal sensitivity for the specific application.

## COMMUNICATION METHODS

OCS can be configured to communicate with ORION XT Detectors through one of the following three communication methods:

1.  Direct connection from the computer to a single ORION XT Detector via its RS-232 port.

2.  Connection from the computer to a local IIM's RS-232 port. OCS can then communicate with up to 127 Detectors and an ARIES or PEGAsys control panel, if connected.
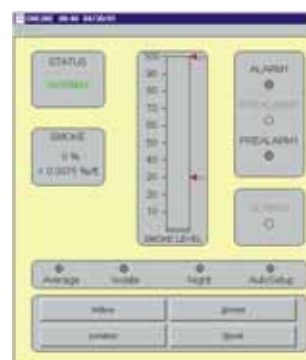


Figure 1.  Display and Control Window



Figure 2.  Smoke History Graphic

3.  Connection from the computer through a modem and a dial-up telephone line to a remote IIM. OCS can dial up to 99 remote IIMs. Each IIM can have up to 127 Detectors and an ARIES or PEGAsys connected to it.

## MONITORING AND CONTROL FUNCTIONS

OCS can be used to monitor and control up to 127 ORION XT Detectors from a central location. Each Detector is graphically represented by a detector graphic, as shown in Figure 1. The detector display and control graphic window shows real-time smoke levels in a bar graph as well as a numeric readout. Indicators show the status of each alarm and pre-alarm level, as well as individual detector trouble conditions. Control buttons for

reset and isolate allow these functions to be performed through OCS. More detailed information on smoke and airflow level is accessible through the buttons in this window.

Alarms or troubles occurring in any Detector will be immediately reported in the Alarm and Trouble status boxes on the bottom of the main screen. The display and control graphic window for the Detector in which the event occurred will be brought to the front center of the main screen. This allows the problem zone to be immediately recognized and analyzed. The software keeps a log of up to 128 events such as alarms, troubles and changes to system configurations.

A remote IIM can be configured to automatically dial the computer running OCS software whenever an alarm or trouble occurs in a Detector on the IIM network. Once the remote connection is made, the interface is identical to a local connection allowing full access to monitoring and control features.

OCS can also reset and isolate the Detector as well as perform detector sensitivity tests. The control functions are installer password protected functions.

### CONFIGURATION FUNCTIONS
The OCS Program  is required to configure ORION XT Detectors. Configuration functions include:

- Alarm Sensitivity Threshold
- Alarm Levels (including separate day and night levels)
- Alarm Delay Periods
- Latching or Non-Latching Alarms and Troubles
- Smoke History Update Rates
- High and Low Airflow Trouble Threshold
- Referencing Functions
- Time and Date
- Auto-Setup™ Function
- Signal Averaging
- Display Module Sounder
- Isolation Relay Programming
- PEGAsys  Addressable Alarm Module (PALM)
- Airflow Normalization
- Installation Information
- Owner Location

In addition to configuring Detectors, the software is used to configure Intelligent Interface Modules for the following functions:

- Auto-dial Phone Numbers
- Network Identification Names

- ORION XT  Detector Addresses
- Phone-Line Supervision
- When an IIM is connected to an ARIES or PEGAsys panel, OCS allows full access to panel text menus.

### SMOKE HISTORY GRAPHING
OCS software will display the smoke history of an ORION XT Detector in a graphical format, as shown in Figure 2. The smoke history is stored in the Detector for 28 days. Once the smoke history is downloaded from the Detector to the computer, the OCS then graphs the history in a smoke level versus time format. The following features are available when graphing smoke levels:

- Data sampling rate of 2 to 60 seconds
- Each Detector stores 40,000 data points
- Up to 28 days of history can be graphed at one time
- Sections of the graph can be enlarged for detailed analysis
- The ability to slide forward and backward in time
- Graphs can be titled and printed
- History graphs can be stored to disk
- A cursor is provided for precise measurements of smoke levels and times

### SYSTEM REQUIREMENTS
OCS  Version 3 is designed to run on computers running Windows 95/98/2000/NT or XP. The computer must meet these minimum criteria:

- Pentium 75MHz CPU
- 20 MB of RAM
- 3 MB of hard disk space
- A VGA monitor (800 x 600 pixel)
- A mouse or compatible pointing device
- One unused COM port
- CD-ROM drive

### ORDERING INFORMATION

| COMPONENT | PART NUMBER |
|---|---|
| ORION Configuration Software Version 3 Software and User's Guide | 77-297120-000 |
| RS-232 Programming Cable Assembly | 74-100016-003 |
| ORION Configuration Software Version 3 User's Guide, Doc #2 | 06-236012-401 |

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