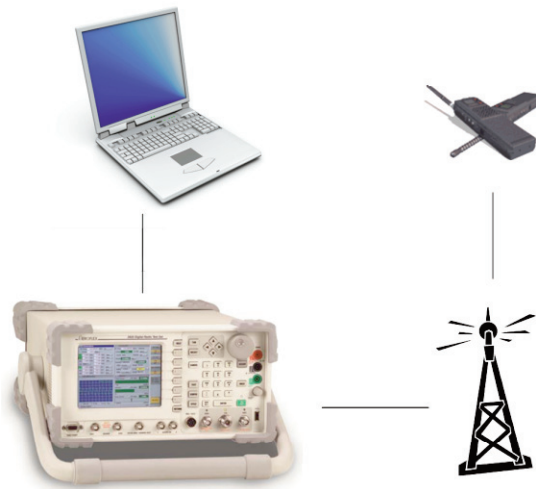


3900 Series

Off Air Monitor for P25 Message Logging (390XOPT230)

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P25 Message Logging

The Aeroflex 3900 Series P25 Off Air Monitor (OAM) is used to capture and view APCO P25 messages sent over the air. The OAM can receive and demodulate P25 RF signaling, decode P25 messages and log these messages to a file for later viewing.

Both trunked (control and traffic) and conventional channels are supported, allowing network engineers to:

- Verify compliance to P25 standards
- Troubleshoot existing P25 systems
- Analyze third party signaling

Monitor Up to four channels

With a minimum configuration the OAM can monitor two frequencies, for example, an uplink and downlink of a single trunked or conventional channel. With additional 3900 Series test sets, the OAM can be configured to monitor additional frequencies. With the maximum configuration, the OAM can be setup to simultaneously monitor and log the data from the outbound and inbound control as well as the outbound and inbound voice channels.

P25 Conformance Profile Testing

The Aeroflex 3900 Series P25 Off Air Monitor is an integral part of the test environment of the P25 Conformance Profile Testing required by TIA-102.CAEA and TIA-102.CAEB. The OAM serves as the P25 monitor log that is used to verify the CAI output of subscriber units and repeaters.

P25 OAM User Interface

The P25 OAM includes a powerful user interface that enables you to tailor the operation of the P25 OAM to the problem that you are trying to solve. With powerful filtering and triggering capabilities, the P25 OAM displays and logs the data that you need to see.

Bookmarks Pane
Historical logs can be loaded and examined, with information about the log session maintained.

Log Items Pane
A summary of all the messages captured is listed. The source column indicates the channel in which the message originated. The summary column gives a brief overview of the message including any salient field values.

Marker Information
Delta time information from the current log entry to marked entries is displayed here.

Raw Data
Raw data associated with the selected message is displayed and the currently selected field in the message is shown in bold to indicate its location in the

Details Pane
Detailed view of a selected message with a descriptive breakdown of each field and its value in both decimal and hex.

Analysers Pane
The channels to be monitored are configured here. There is no logical limit to the number of channels that can be monitored.

Capture Devices Pane
Configuration parameters of capture devices are defined here.

Filters Pane
Complex filters can be defined to restrict the messages logged and/or displayed. Filters can be used to color the messages in the Log Items pane to provide for visual indication of key messages or field values.

Triggers Pane
Field values and other attributes can be used to enable and disable filters to optimize long duration logging.

The Off Air Monitor for P25 Message Logging software is compatible with any 3900 Series radio test set. For more information, contact one of the world wide Aeroflex Sales Offices.

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Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.