Description

Mircom’s FX-2003-12XTDS Intelligent Analog Fire Alarm Control Panel is designed to provide maximum flexibility of intelligent system requirements while also providing easy installation and operation at a cost-effective price.

The FX-2003-12XTDS base panel consists of one intelligent signaling line circuit (SLC) capable of supporting 99 intelligent sensors and 99 intelligent modules. In addition the base panel includes Four Class A/B (Style Z/Y) Notification Appliance Circuits rated at 1.7 Amps each, a large 4 x 20 back-lit alphanumeric LCD display and a 12 Amp power supply.

The FX-2003-12XTDS has provision to mount two programmable modules such as a RAX-1048TZDS LED annunciator, IPS-2424DS input switch module or an FDX-008 fan damper control module. In addition the FX-2003-12XTDS supports up to 9 adder modules such as the ALC-396S SLC loop adder module or SGM-1004A indicating circuit module.

The enclosure comes with a black backbox and is available with a beige or red door. A Fire Retardant Lexan window in the hinged door allows for viewing of the display and controls. The enclosure comes with a durable CAT-30 lock and key and space is provided for up to 17 AH Gel Cell batteries.

Features

- One expandable to five Intelligent Signaling Line Circuits (SLC)
- Each SLC Loop is capable of supporting 99 Analog Sensors and 99 Addressable Modules which can be wired in Class A (Style 6 or 7) or Class B (Style 4)
- Four Class A/B (Style Z/Y) Notification Appliance Circuits rated at 1.7 Amps each
- Large 4 by 20 character Back-lit LCD Display with user friendly menu
- 12 Amp power supply
- Provision for two programmable modules and 9 internal adder modules
- Configurable for Two Stage operation
- Three level password protection with field programmable definition which enables the installer to determine what functions are accessible for each password level
- Panel Security to protect site configurations
- Manual Control Enable which allows password protection for all front panel function switches
- Correlatable Switch Inputs which allows for multi-functional outputs
- Four Alarm Queues with selector switches and LEDs for Alarm, Supervisory, Monitor and Trouble
- Auxiliary relay contacts for Common Alarm, Common Supervisory and Common Trouble
- RS-232 output for remote system printer or CRT
- Two Event History Logs comprised of a 1000 Alarm History Log for alarm related events and a 2000 Event Log for all events
- Front Panel Auto-Configure and/or Computer laptop Programmable
- Common Control switches and/or indicating LEDs for System Reset, Signal Silence, Fire Drill, Acknowledge, General Alarm, Lamp Test, A.C. On, Pre-Alarm and Ground Fault
- Built-in One Man Walk Test operation
- Configurable for Coded Operation
- Panel selection for UL or ULC requirements for smoke sensors (sensitivity) via computer laptop
- Capability to adjust Intelligent Smoke Detector sensitivity level

FX-2003-12XTDS in a BBX-1024XTR enclosure

UL UL S7010 S7010

NOT TO BE USED FOR INSTALLATION PURPOSES.
Mircom reserves the right to make changes at any time without notice in prices, colours, materials, components, equipment, specifications and models and also to discontinue models.
**FX-2003-12XTDS Standard Series Fire Alarm Control Panel**

**BBX-1024XT(R) Enclosure**
The BBX-1024XT enclosure supports one FX-2003-12XTDS and up to 17 AH Batteries. The enclosure features the universal CAT-30 lock and a removable door for easy installation and servicing. The enclosure is available in a white (BBX-1024XT) or red exterior (BBX-1024XTR). The FA-XT-TRB Semi-Flush Trim Ring is required for semi-flush mounting.

**BBX-1024XT(R) Dimensions:** 35 ½”H x 14 ½”W x 5 ¼”D

**FX-2003-12XTDS Expanded Main Control Unit**
The FX-2003-12XTDS Expanded Main Control Unit comes complete with one intelligent signaling line circuit (99 Analog Sensors and 99 Addressable Modules), 4 Class A/B (Style Z/Y) Notification Appliance Circuits (1.7 Amps each), a 4 line by 20 character back-lit LCD display and a 12 Amp Power Supply which charges 17-55 AH batteries. The FX-2003-12XTDS has provision for two programmable modules and provides space for up to 9 adder modules. The FX-2003-12XTDS mounts in the BBX-1024XT(R) enclosure.

**Adder Loop Controller Modules**

**ALC-198S Single Analog Loop Controller Module**
The ALC-198S Single Analog Loop Controller Module provides an additional analog loop to the FX-2000 consisting of 99 Analog Sensors and 99 Addressable Modules. The ALC-198S occupies one module slot in the FX-2003-12XTDS.

**ALC-396S Dual Analog Loop Controller Module**
The ALC-396S Dual Analog Loop Controller Module provides two additional analog loops to the FX-2000 consisting of 99 Analog Sensors and 99 Addressable Modules per loop. The ALC-396S occupies one module slot in the FX-2003-12XTDS.

**ALC-H16 Hardwire Loop Controller Module**
The ALC-H16 Hardwire Loop Controller Module allows the FX-2000 to support an additional sixteen (16) conventional hardwire adder modules. The hardwire modules consist of the DM-1008 Eight Initiating Circuit Module, SGM-1004 Four Indicating Circuit Module and the RM-1008 Eight Relay Circuit Module. The ALC-H16 occupies one module slot in the FX-2003-12XTDS.

**FX-2000 Standard Series System Maximums**
- 500 Input Circuits
- 150 Output Circuits
- 5 Intelligent Addressable Loops
- 4 Remote LCD Annunciators
- 4 Main LED Annunciators
- 100 Manual Control Switches
Adder Hardwire Modules

DM-1008A Eight Initiating Circuit Module
The DM-1008A provides 8 Class B (Style B) or 4 Class A (Style D) Initiating Circuits configurable for Alarm, Supervisory or Trouble zones. The DM-1008A occupies one module slot in the FX-2003-12XTDS.

SGM-1004A Four Indicating Circuit Module
The SGM-1004A provides 4 Class A/B (Style Z/Y) Notification Appliance Circuits configurable as Silenceable or Non-Silenceable. Each NAC circuit is rated at 1.7 Amps. The SGM-1004A occupies one module slot in the FX-2003-12XTDS.

RM-1008A Eight Relay Circuit Module
The RM-1008A provides the FX-2003-12XTDS with eight individual configurable relays per module. Each relay provides one Form C contact rated at 28 VDC @ 1 Amp (resistive load) as well as a Green LED to indicate that the relay is active. The RM-1008A occupies one module slot in the FX-2003-12XTDS.

Adder Auxiliary Modules

UDACT-300A Digital Alarm Communicator Module
The UDACT-300A Digital Alarm Communicator Module allows the FX-2003-12N to transmit addressable point information to a central station. The UDACT-300A occupies one module slot in the FX-2003-12XTDS.

PR-300 Polarity Reversal/City Tie Module
The PR-300 Polarity Reversal/City Tie Module provides the system with a supervised City Tie and Polarity Reversal connection. The PR-300 occupies one module slot in the FX-2003-12XTDS.

Programmable Modules

RAX-1048TZDS Programmable LED Annunciator Module
The RAX-1048TZDS Programmable LED Annunciator Module provides 48 programmable bi-colored LEDs. The RAX-1048TZDS connects to the main panel or a RAX-LCD or RAM-1032TZDS when mounted remotely. The RAX-1048TZDS occupies one display position in the BBX-1024XT, BB-1000 or BB-5000 Series enclosures.

FDX-008 Fan Damper Control Module
The FDX-008 Fan Damper Control Module provides individually programmed circuits which can be used for fan or damper control. The FDX-008 connects to the main panel or the RAX-LCD and occupies one display position in the BBX-1024XT, BB-1000 or BB-5000 Series enclosures.

UDACT-300A Programmable Input Switches Module
The UDACT-300A Programmable Input Switches Module provides 24 programmable switches that can be configured for ancillary functions such as zone bypass or added common control functions. The UDACT-300A connects to main panel or the RAX-LCD when mounted remotely. The UDACT-300A occupies one display position in the BBX-1024XT, BB-1000 or BB-5000 Series enclosures.

FX-2003-12XTDS Electrical Specifications

<table>
<thead>
<tr>
<th>AC Line Voltage</th>
<th>120V 60Hz / 240V 50Hz 4 Amps. / 2 Amps. (primary)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply ratings</td>
<td>12 Amps. Max. (secondary)</td>
</tr>
<tr>
<td>Indicating Circuits</td>
<td>24VDC unfiltered 10 Amps. max.</td>
</tr>
<tr>
<td>Battery</td>
<td>24VDC, Gel-Cell Lead-Acid</td>
</tr>
<tr>
<td>Charging Capability</td>
<td>17-55 AH batteries</td>
</tr>
<tr>
<td>Current Consumption</td>
<td>Standby 230 mA</td>
</tr>
<tr>
<td></td>
<td>Alarm 380 mA</td>
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</tbody>
</table>
Remote Annunciators

RAX-LCD Remote LCD Annunciator
The RAX-LCD Remote LCD Annunciator provides the same functions as the main display on the fire alarm control panel. The RAX-LCD occupies one display position in the BB-1000 or BB-5000 Series enclosures.

Graphic Annunciator Driver Modules

MGD-32 Master Graphic Driver Module
The MGD-32 Master Graphic Driver Module provides common control inputs for the common control switches. The MGD-32 mounts in a graphic annunciator wallbox or in the BB-5000 enclosures. An external power supply required for incandescent lamps and lamp test.

Ordering Information

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FX-2003-12XTDS</td>
<td>Expanded Main Control Unit c/w one Intelligent Signaling Line Circuit (SLC), 4x20 back-lit LCD display, 4 Class A/B (Style Z/Y) Notification Appliance Circuits and a 12 Amp power supply. Provides space for two programmable modules and 9 adder modules. Mounts in the BBX-1024XT(R) enclosure.</td>
</tr>
<tr>
<td>BBX-1024XT</td>
<td>Enclosure for FX-2003-12XTDS c/w removable white door, black backbox and CAT-30 lock and key. (Add suffix &quot;R&quot; for red door)</td>
</tr>
<tr>
<td>FA-XT-TRB</td>
<td>Black Semi-Flush Trim Ring for BBX-1024XT(R) enclosure.</td>
</tr>
<tr>
<td>ALC-198S</td>
<td>Single Loop Intelligent Analog Loop Controller Module (99 Analog Sensors and 99 Addressable Modules)</td>
</tr>
<tr>
<td>ALC-396S</td>
<td>Dual Loop Intelligent Analog Loop Controller Module (198 Analog Sensors and 198 Addressable Modules)</td>
</tr>
<tr>
<td>ALC-H16</td>
<td>Hardware Loop Controller Module. Supports 16 Conventional Hardwired Modules.</td>
</tr>
<tr>
<td>DM-1008A</td>
<td>Eight Class B (Style B) or 4 Class A (Style D) Initiating Circuit Module</td>
</tr>
<tr>
<td>SGM-1004A</td>
<td>Four Class A/B (Style Z/Y) Indicating Circuit Module (Rated at 1.7 Amps per circuit)</td>
</tr>
<tr>
<td>RM-1008A</td>
<td>Eight Relay Circuit Module c/w eight form C relays (Rated for 28 VDC @ 1 Amp max. per relay)</td>
</tr>
<tr>
<td>UD-AP-300A</td>
<td>Digital Alarm Communicator Transmitter/Dialer Module</td>
</tr>
<tr>
<td>PR-300</td>
<td>Polarity Reversal and City Tie Module</td>
</tr>
<tr>
<td>RAX-1048TZDS</td>
<td>Programmable Adder LED Annunciator Module c/w 48 bi-coloured LEDs and and 48 Trouble LEDs</td>
</tr>
<tr>
<td>IPS-2424DS</td>
<td>Programmable Input Switches Module c/w 24 selector switches and 24 bi-coloured LEDs</td>
</tr>
<tr>
<td>FDX-008</td>
<td>Fan Damper Control Module c/w 8 programmable switches</td>
</tr>
<tr>
<td>RAX-LCD</td>
<td>Remote Shared Display LCD Annunciator c/w Display Queues and Common Controls.</td>
</tr>
<tr>
<td>RAM-1032TZDS</td>
<td>Main LED Annunciator Module c/w Common Control Features, Indicators and 32 Bi-Coloured LEDs and 32 Trouble LEDs</td>
</tr>
<tr>
<td>MGD-32</td>
<td>Master Graphic Driver Module c/w Fire Alarm Common Control Switch Inputs and 32 Supervised Outputs</td>
</tr>
<tr>
<td>AGD-048</td>
<td>Adder Graphic Driver Module c/w 48 Supervised Outputs</td>
</tr>
</tbody>
</table>

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