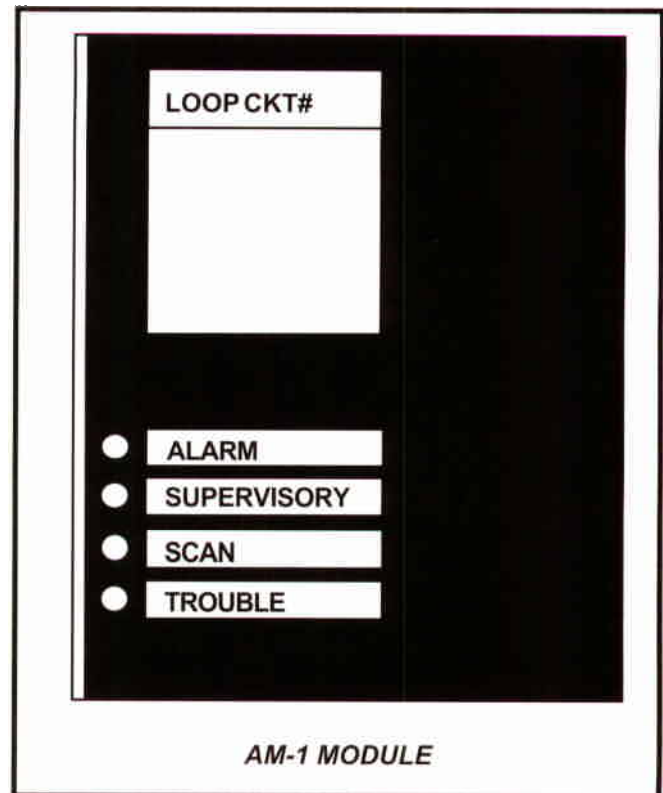


FEATURES

- UL, FM, BSA, CSFM listed, IBEW/USA crafted
- Up to 198 addressable devices per AM-1 module 99 module addresses and 99 sensor addresses, up to 8 modules per system (1584 points total)
- Up to 104 programmable "software zones" per AM-1 module (104 total software and conventional zones per system)
- Intelligent/addressable photoelectric, ionization, duct and thermal detector compatible
- Addressable monitor module compatible (for manual stations, existing 4-wire detection, signals, relays, etc.)
- Fully matrix programmable from "software zones" to "conventional" output circuits via the MPC-2000 CU-2 module
- Selectable alarm verification on a "by device" basis
- Inherent device and wiring supervision ("T-Tap" compatible)
- Style 4, 6 or modified 7 wiring/operation compatible
- Adjustment of sensitivity on a "by detector" basis
- Automatic "detector maintenance required" alert
- Alpha-numeric LCD display of device type and location
- Automatic daily test of detectors
- Network capability with other "conventional" zones and signal/relay circuits (up to (104) total input and (96) total output ckts.)
- "Quick configure" program mode
- Power limited
- Non-volatile EEPROM memory with password software key protection
- Large scale terminal block for ease of service
- Program function allows for configuration and programming via the integral keypad on the MPC-2000 CU-2 module
- Cutoff function accessible on a "by module" basis
- Full alpha-numeric LCD display for detailed custom location information on all addressable devices
- No bulky card files and "look-up" tables to thumb through to find device locations and status
- Compatible with CU-2 equipped systems



GENERAL

The addressable/analog (intelligent) module (AM-1) functions as an interface between the MPC-2000 control panel and up to 198 addressable/analog (intelligent) initiation devices. To the MPC-2000 the AM-1 operates similar to up to (52) ZN modules. To the addressable/analog (intelligent) initiation devices, the AM-1 serves as both a data collection and data outputting controller and will operate all compatible listed devices. Although the AM-1 appears to the MPC-2000 as "conventional" initiating modules, it has full internal control matrix capability and can operate "conventional" output ckts. within the MPC-2000 according to an internally stored tailored program. The AM-1 communicates every few seconds with up to 198 addressable/analog initiation devices thus identifying exactly which device is in alarm or trouble. In most cases only a single pair of wires is required per loop ckt. thus providing a major installation cost saving compared to "conventional" systems. In addition to communicating with each sensor the AM-1 can measure analog sensitivity and determine the type of device (i.e., ionization, photoelectric or thermal sensor). The programmer can use the MPC-2000's CU-2 keypad and the LCD display to display and adjust the sensitivity range of each sensor to best fit its specific application. The AM-1 will automatically test and verify the connected sensor daily. A "maintenance required" alert will be displayed if a sensor has fallen out of preset calibration and needs service thus helping to eliminate unwanted alarms. The AM-1 contains an integral red "alarm" LED, a yellow "supervisory" LED, a green "scan" (power on/normal) LED and a yellow "trouble" LED. The companion CU-2 module will provide a full alpha-numeric LCD display by device of the following: custom location, numerical address, loop ckt. number, software zone, type of device and alarm/trouble status. No manual decoding of digital messages or conversions to a "look-up" table are required.

GENERAL (CONT.)

Also included is a password software key protected "quick configure" function. When enabled, this feature determines the address and type of all devices which are connected to the AM-1(s). It automatically load this information into the AM-1's non-volatile memory thus eliminating key strokes during major system configurations or re-configurations.

APPLICATION

- 1.) (1) BB-2 Buffer Board Module is required for the (8) AM-1 modules.
- 2.) (1) MP-3 or AP-4 Power Supply Module is required for every (4) fully loaded AM-1 modules.

COMPATIBLE DEVICES by System Sensor

Model #	Description
9152	(2551) Photoelectric Addressable/ Analog Detector (sensor)
9153	(2551T) Photoelectric with heat Addressable/Analog Detector (sensor)
9163	(1551) Ionization Addressable/Analog Detector (sensor)
9154	(5551B) Thermal Addressable/Analog Detector (sensor)
9182	(5551R) Thermal Addressable/Analog Detector (sensor)
9161	(DH500AC/DC) Duct Housing with Relay, less Sensor
9179	(DH500) Duct Housing without Relay less Sensor.
9155	(B501B) "2-wire" Addressable/Analog Detector Base
9156	(B501BH) "4-wire" Addressable/Analog Detector Base with Integral Horn
9157	(M500MB) Monitor Module w/cover
9158	(M501M) Mini Monitor Module
9159	(M500CH) Control Module
9160	(M500X) Isolator Module

ORDERING

Model #	Part #	Description
AM-1	401337	Addressable/Analog (Intelligent) loop ckt. module

TECHNICAL

Power Provision:

- 198 Addressable/analog devices total max. consisting of:
 - 99 Addressable/analog detector devices max.
 - and
 - 99 Addressable input modules max.

Power Consumption:

- Each module:
 - Alarm - .100 Amp
 - Standby - .100 Amp
 (Device draws must be added to above for each module)

Space Provision:

None

Space Consumption:

(2) Module spaces

Channel Provision:

None

Channel Consumption:

(1) Module on the Parallel Channel

ADDRESSABLE/ANALOG LOOP REQUIREMENTS

- 1.) Total loop resistance - 40 ohm maximum
- 2.) Total loop capacitance - 0.28 μ F. maximum. (56pf./ft maximum)
- 3.) Twisted pair of wire
- 4.) Unshielded cable
- 5.) Low capacitance cable
- 6.) High velocity of propagation cable 60% minimum
- 7.) Run cables of each loop separate from all other circuits.
- 8.) Run cables of the same loop separately. (+ out & - out from + in & - in)
- 9.) Different models or types of cable should not be used on the loop

Note:

Wire length of 14 & 12 gage wire is 10,000' for a total twisted pair cable length of 5000'. Check manual for 16 & 18 wire gage lengths. Contact Faraday for acceptable wire manufacturers.

WARNING - The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information, are provided with the product and are available from the Manufacturer. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact the Manufacturer.