

Model 8801 Intelligent Device Interface Module

Features

- Interfaces and Supervises Normally Open Contacts (Fire Detection)
- Compact Size Allows Mounting in Single Gang Box Behind Equipment
- Operates with MPC-Plus SLC Loop
- Microcomputer Chip Technology
- Innovative Technology Supports Comprehensive System and Interface Communication
- Dynamic Supervision
- Two Wire Operation
- Model **8820** Programs and Verifies Device's Address and Tests Device's Functionality
- Electronic Address Programming is Easier and More Dependable
- UL Listed, CSFM and NYMEA pending

Description

The Faraday **8801** Interface Module is designed to provide the means of interfacing direct shorting devices to the MPC-Plus system's loop circuit.

The 8801 Interface Module provides the market's most advanced method of address programming and supervision, combined with sophisticated control panel communication. Each 8801 Interface Module incorporates microcomputer chip technology and its sophisticated bi-directional communication capabilities with the control panel.

The 8801 is designed to monitor a normally open dry contact and reports the contact's status to the control panel.

The device's microcomputer chip has the capacity of storing, in memory, identification information.

Faraday's innovative technology allows all 8801 intelligent interface modules to be programmed by using the model 8820 Programmer/Tester. The 8820 Programmer/Tester is a compact, portable, menu driven accessory that makes programming and testing an interface device faster, easier and more dependable than previous methods. The 8820 eliminates the need for mechanical addressing mechanisms, such as program jumpers, DIP switches or rotary dials, because it electronically sets the 8801 interface's address into the interface's microcomputer chip non-volatile memory. Vibration, corrosion and other



8801 Device Interface Module

conditions that deteriorate mechanical addressing mechanisms are no longer a cause for concern. The 8801 is connected to the programmer/tester with the programming cable provided with the tester. This cable utilizes two (2) alligator clip connectors, to attach to the 8801.

The 8801 has five leads, one for grounding, which are wired to the system with user supplied wire nuts.

The 8801 is fully compatible on the same circuit with all intelligent Faraday detectors, addressable manual stations or any other Faraday intelligent modules.

Environmental operating conditions for all 8801 modules are 32°F (°C) to 120°F (49°C) with a relative humidity of not greater than 93% non-condensating.

Engineer and Architect Specifications

The addressable interface module shall incorporate a custom microprocessor based integrated circuit that shall provide communication with its compatible control panel. The addressable interface module shall be a Faraday 8801 that shall be compatible with a Faraday MPC-Plus control panel. The 8801 intelligent interface modules shall provide the means of interfacing direct shorting devices to the control panel's addressable circuits. The interface module shall report the contact's status to the control panel.

... continued

The addressable interface module shall be UL listed.

The addressable interface module shall be dynamically supervised and uniquely identifiable by the control panel.

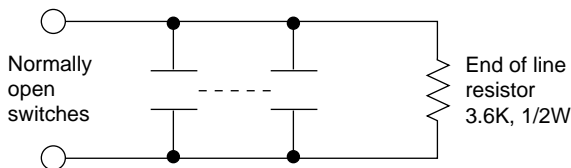
The addressable interface module's address shall be programmed with the use of a portable programming accessory. The programming accessory shall be a Faraday 8820 Programmer/Tester. The portable programmer shall be menu driven. Once the desired address is entered the programmer shall set and verify the address. The programming accessory shall also be capable of testing the interface's functionality. The addressable interface module's address shall be set by electronic means only. No mechanical means such as programming pins, DIP switches or rotary dials shall be required.

The 8801 shall be compatible on the same circuit with other Faraday detectors, addressable interfaces, addressable manual stations or any other Faraday addressable module.

Typical Wiring

(Refer to Figures 1 or 2) Refer to the appropriate wiring diagram below and wire the addressable interface module accordingly.

Note: Recommended wire size:
 18 AWG minimum
 14 AWG maximum



Notes:

1. There can be any number of normally open switches.
2. The end of line resistor must be located at the last switch.
3. **Do not** wire a normally closed switch across the end of line resistor.

Application	Switch	Device Use
Fire Alarm	Normally Open	Alarm
Fire Trouble	Normally Open	Trouble
Fire Supervisory	Normally Open	Trouble

Figure 1 - Wiring Normally Open Switches

Ordering Information

Order No	Description
----------	-------------

8801 Device interface module

Accessories

8820 Programmer/Tester

8986 Carrying case for 8820

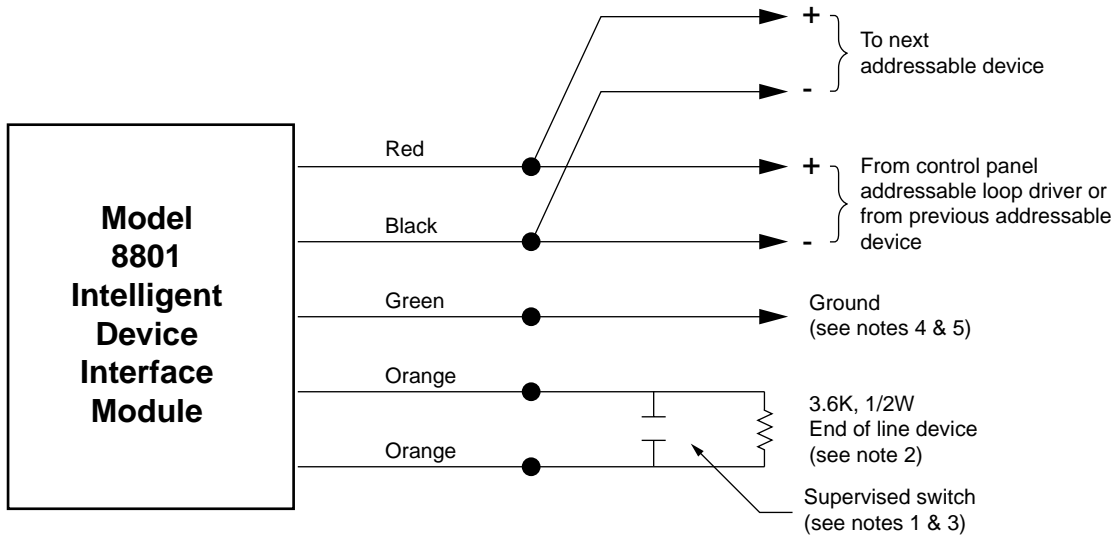


Figure 2

Notes:

1. End of line device: 3.6K, 1/2W resistor
2. The supervised switches have the following ratings:
 Contact resistance max. 10 ohms
 Maximum cable length: 200 feet (18 AWG)
 Max line size 14 AWG
 Min line size 18 AWG

3. If Earth Ground is Available:
 - a. The green wire must be connected to earth ground.
 - b. Use wire nuts to pass the shield wire through the electrical box with NO connection to the device green wire.
 - c. Use shielded wire to connect the switch wiring.
 - d. Tie the switch wiring shield to the Addressable Loop Driver circuit wiring shield. Do not connect Addressable Loop Driver circuit shield to earth ground.
4. If Earth Ground is NOT Available:
 Connect the green wire to the Addressable Loop Driver circuit shield wire. If the Addressable Loop Driver circuit wiring is not shielded, the switch wiring and the Addressable Loop Driver circuit wiring must be in conduit.
5. In supervisory: 8801 draws 1.5mA
6. All circuits are power limited.

Caution - Ground Shield ONLY at the specified location on the Control Panel.



An ISO 9001
Certified Company
Made In USA

805 South Maumee Street
Tecumseh, MI 49286, U.S.A.
Phone: (800) 465-7115
Fax: (800) 552-3557
Web: www.faradayllc.com

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.