

MPC-Net2 Control Panel Networking

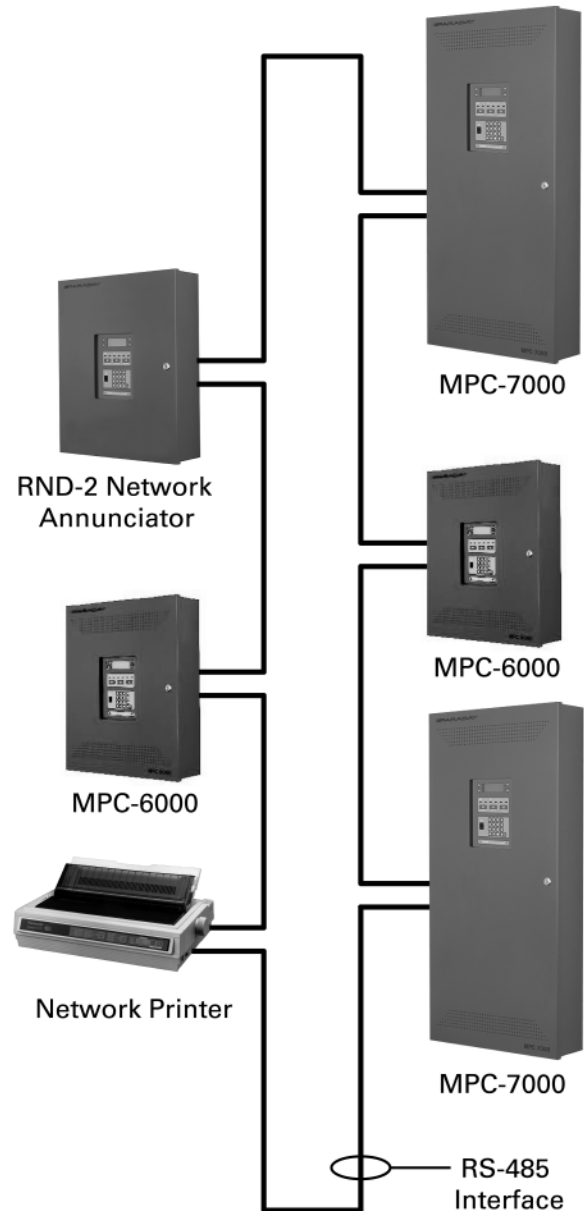
Features

- 99 nodes with total capacity of over 100,000 points
- True peer-to-peer communications with each node storing its own program and easily communicating its status to the network
- True distributed intelligence
- No "Master Node" necessary
- Each node acts as a repeater to regenerate data signals
- Each node is electrically isolated
- Failure of one node does not affect the operation or communication of other nodes on the network
- NFPA style "7" network operation
- Alarm silence, acknowledge and panel reset controls are available at each Network Annunciator
- UL Listed CSFM and MEA pending and FM approved
- Nodes may be connected using category 5 or fiber optic cable

Description

Faraday's MPC-Net2 Control Panel Networking will allow Faraday MPC-6000 & 7000 Series Intelligent Fire Alarm Control Panels to form a network. Each local control panel (node) maintains its own area of protection, while monitoring and controlling other network nodes. Local information is displayed at each network node. Central annunciation and control can be attained by mounting a remote network display (RND-2).

The Faraday MPC-Net2 is an RS-485 based network that allows a maximum of 99 nodes with a total capacity of over 100,000 points. Since installation and programming of the MPC-6000 and MPC-7000 Fire Alarm Control Panels is easily accomplished, the configuration of the MPC-Net2 is simple, yet powerful.



NIB - Network Interface Board (12523A,12526A or 12603A)

The Faraday MPC-Net2 network is a way to link Faraday MPC-6000 and MPC-7000 Fire Alarm Control units , RND-2 Remote Network Annunciators , and devices such as printers, and computers together to form a peer-to-peer network. Each device connected to the network requires a NIB (network interface board).The NIB communicates with the attached device through an RS232 port. It receives 24VDC from a MPC-6000, MPC-7000 or RND-2.The network is wired from node to node in a daisy chained ring configuration for style 7 operation. The network side of the NIB has 2 ports. Port 1 (reverse direction) is an isolated port and port 2 (forward direction) is a non-isolated port. Port 2 of a NIB must be wired to port 1 of the next NIB (see wiring diagrams).The signals are regenerated at each NIB allowing a distance of 3000 feet between NIBs. A total of 99 NIBs.

There are three versions of NIBs:

1. P/N 12523A is a NIB designed to connect to an RND-2, MPC-6000 and MPC-7000 (mounts externally) to the MPC-Net.
2. P/N 12526A is a NIB with an isolated RS232 port. It is designed to connect printers and computers to the MPC-Net2.The computer may be used as a terminal.
3. P/N 12603A is a NIB designed to connect the RND-2, MPC-6000 and MPC-7000 to the MPC-NET2 and mounts inside the enclosure of either the RND-2, MPC-6000 or MPC-7000.

12523A's mount in a 6 gang box supplied by others or a (12411014) surface back box.

Fiber Optic Converters

It is possible to convert one or both of the network ports of an "A" version NIB to use fiber media instead of Category 5 wire with the use of optional fiber converters 12535 or 12536. Each converter converts one port of the NIB to fiber media. There is a converter for single mode fiber and one for multi-mode fiber. The converters plug directly into sockets onto the NIBs. Different media types can be mixed on the same NIB. A maximum of 2 media types can be used per NIB.

The 12535 & 12536 Fiber Optic Converters allow nodes to be connected via Fiber Optic Cable. The multi-mode converter 12535 is designed to use duplex 62.5/125 μ m multi-mode fiber cable with ST connectors. The single mode converter 12536 is designed to use duplex 9/125 μ m single mode fiber cable with SC connectors. The maximum loss allowed between each NIB with fiber converters is 10dB

RND-2 Network Annunciator

The RND-2 is designed to annunciate network events (alarms, troubles and supervisories). It is capable of scrolling through network events.These events can be acknowledged globally. In addition, the RND-2 can perform global alarm silence and reset functions.

The RND-2 can log on to any panel on the network. At that point, access to user and maintenance levels for that panel are available at the RND-2.

Up to 16 RDC-2 remote annunciators can be slaved off of one RND-2.The RDC-2 duplicates the display and control functions of the RND-2. The RND-2 requires a (12523A or 12603A) NIB board.

Line Surge Suppressor (12525)

The 12525 is a data line surge suppressor and is required when networking from building to building. The surge suppressor comes mounted in a surface backbox and can be used with a NIB for mounting.

Applications

- Campus settings
- Large multiple building complexes
- Hospitals
- Industrial buildings and facilities
- High rise buildings

Engineering Specification

It shall be possible, by adding a NIB, to place a MPC-6000 or MPC-7000 panel into a network (Faraday MPC-Net2) consisting of other MPC-6000 or MPC-7000 Fire Alarm Panels.The NIB shall provide a means for the control panel to be addressed as a "node" on and communicate with the Faraday MPC-Net2.

Ordering Information

Model	Description	Part No.
12523A	Network interface module, connects RND-2, MPC-6000 & MPC-7000 (mounts externally) to network	500-649106FA
12526A	Network interface module w/isolated RS232 (computer)	500-649105FA
RND-2	RND-2 remote annunciator	599-649593FA
12525	NIB surface back box w/surge protection, red	500-699647FA
12411014	NIB surface back box, red	500-699639FA
12603A	Network Interface module that mounts in RND-2, MPC-6000 and MPC-7000 enclosure	500-649107FA
12535	Multi-mode Fiber Converter	500-649109FA
12536	Single Mode Fiber Converter	500-649108FA
RDC-2	Remote 80 character LCD annunciator	500-648980FA

If MPC-7000 has both loop and signal expansion modules installed, you must use the 12523A as the 12603A will not fit in the enclosure.



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