

TECHNICAL BULLETIN

Installation Instructions for Fiber Optic Network Solution

The information contained in this document is to be used as a quick reference guide. For detailed system information, please refer to the FACP Installation & Operation Manual, Moxa TCF-142 series Installation Manual and IFS D1300 series Installation Manual.

General Description:

The FireNET system enables information to be transmitted between control panels using a secure network connection. Up to 64 control panels or network annunciators (nodes) can be connected together and the system can be configured such that selected information can be displayed or acted upon at each panel.

This Installation Instruction Guide describes the network connection between panels or panel and network annunciator to connect and communicate over a Single/Multi Mode Fiber Optic cable through the following data transceiver products:

- MOXA - TCF-142 Series
- GE Security - D1300 Series

Specification:

MOXA: TCF-142 Series

Supply Voltage	12VDC ~ 48VDC
Current Consumption at 12VDC	140 mA
Wiring Distance	TCF-142-S-ST (Single Mode): 24.8 Miles (40km) TCF-142-M-ST (Multi Mode): 3.1 Miles (5km)
Operating Temperature	-40°F (-40°C) ~ 167°F (75°C)
Dimension	3.54"W x 3.94"L x 0.87"D

GE Security: D1300 Series

Supply Voltage	12VDC ~ 24VDC
Current Consumption at 12VDC	200 mA
Wiring Distance	D1325 (Single Mode): 20 Miles (33km) D1300 (Multi Mode): 1.9 Miles (3km)
Operating Temperature	-40°F (-40°C) ~ 165°F (74°C)
Dimension	7.0"W x 4.9"L x 1.0"D

Note: Please refer to the MOXA/GE Security datasheet for detailed specifications on the above products.

Wiring Scheme:

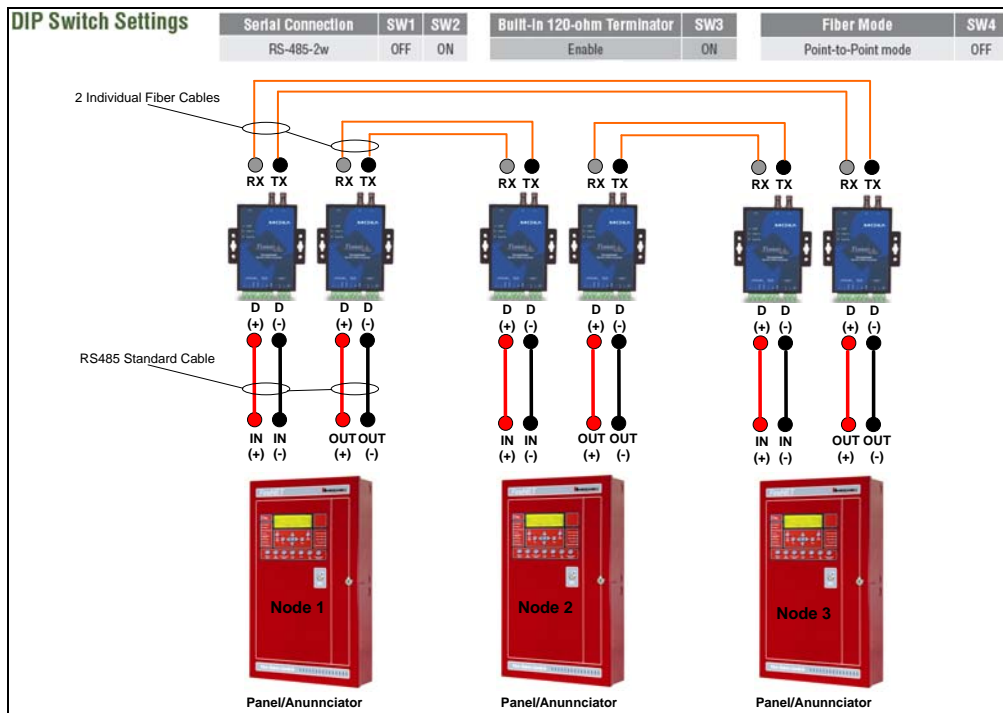
When designing or installing a network of FireNET panels and network annunciators, always be aware of the following:

- ✓ The panel network must be wired as a ring (Class A). Each fiber run will require two communication links connected to another panel or panels. Up to 64 control panels or network annunciators can be connected together in one loop. If either of these is not connected, a trouble will be displayed. It is important to ensure the connection from the "OUT" terminals from one panel connect to the "IN" terminals of the next panel and so on. The "OUT" terminals of the last panel are connected to the "IN" terminals of the first panel to complete the loop. Two Fiber Optic converters are required per panel or network annunciator (node).
- ✓ Dip Switch settings must be set accordingly to the MOXA wiring diagram.
- ✓ Network cabling should be standard RS485 type with minimum #20 AWG and the following for the fiber cables:

Important Caution for Wire Types:

- MOXA Single Mode: 9/125 μm , 8.3/125 μm , 8.7/125 μm , 10/125 μm
- MOXA Multi Mode: 50/125 μm , 62.5/125 μm and 100/140 μm
- GE Security Single Mode: 9/125 μm
- GE Security Multi Mode: 62.5/125 μm

Wiring Diagrams:



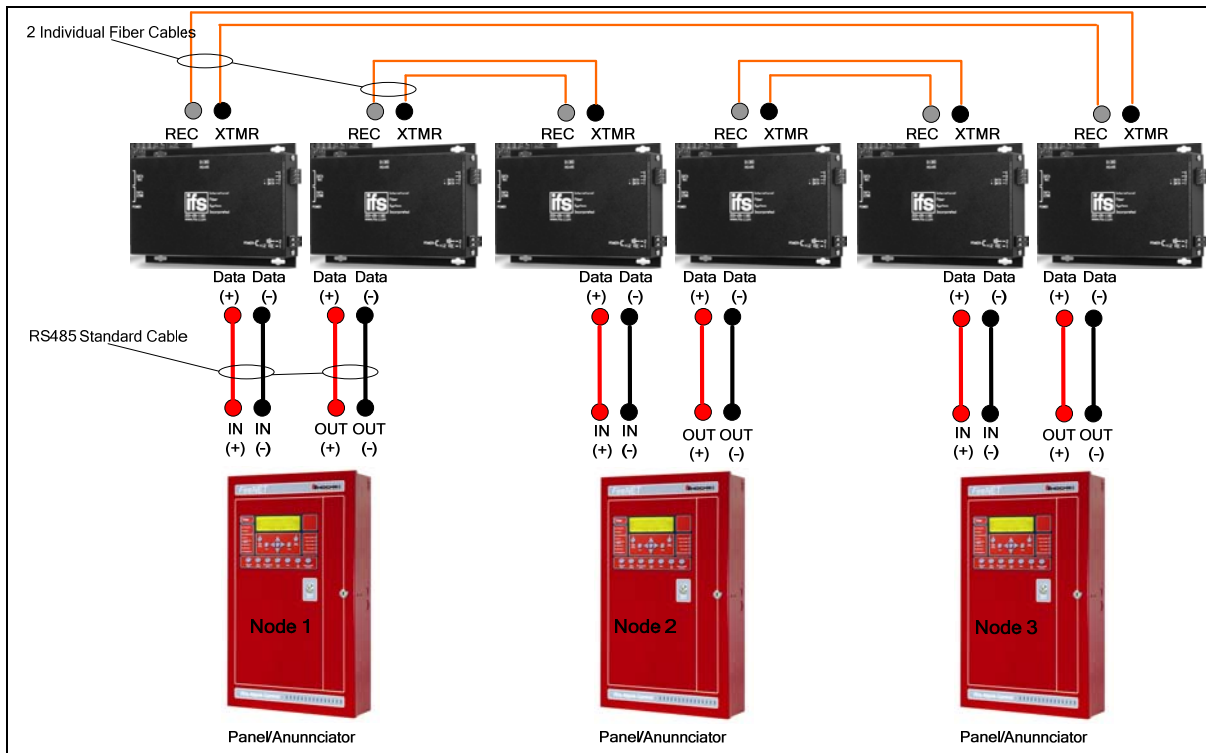


Figure 2 – GE Security D1300 Series

If you have any questions regarding this matter please contact Technical Support.

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