DATA SHEET

RS485 NETWORK MODULE

APPROVALS:

- UL Listed - S2203
- FM Approved- 3023436 (Cheetah Xi) 3020297 (CyberCat)
- City of New York - 307-05-E (Cheetah Xi) 490-04-E (CyberCat)
- CSFM - 7165-0900:137 (CyberCat) 7165-0900:149 (Cheetah Xi)
- City of Denver
- City of Chicago
- Kingdom of Bahrain
- Taiwan
- OSHPD

DESCRIPTION

The RS485 Network Module, P/N 10-2482, provides an intelligent interface between networked Fike panels. The module allows up to 128 CyberCat® or Cheetah® Xi panels to be tied together, which allows global operation and monitoring of all points from any panel. Each panel to be tied into the network will need a Network Module installed to participate. The module mounts directly to the associated control panel circuit board using mounting hardware provided with the module.

Note: The CyberCat 50 and Cheetah Xi 50 control systems are not compatible with this product.

SPECIFICATIONS

Current Consumption:	50 mA in standby and alarm
Typical Voltage:	Varies between 0-1 VDC. It should never be a constant voltage or 0 VDC
P50 Terminal (removable):	Network (A+, A-, SH, B+, B-) Accepts 12-24 AWG Max wire impedance 110Ω Max capacitance 0.05 uF Max Distance 4,000 ft. (1219 m) between each network panel; 128 devices max. Power-limited and supervised
Recommended Wire:	Belden 9841; for plenum applications use Belden 89841, Belden 82841 or Belden 82842 or equivalent
Dimensions (LxWxD):	3.5” x 1.5” x 2” (8.9cm x 3.8cm x 5.08cm)
Weight:	0.10 lbs. (45 grams)
Operating Temp:	32°F to 120°F (0°C to 49°C)
Operating Humidity:	93% RH, non-condensing
Compatibility:	RS485 Network Module is compatible with Fike’s Cheetah Xi, CyberCat 254 and 1016 fire alarm and suppression panels. However, there may be some compatibility issues regarding the firmware revision level of the panel versus the firmware revision level of the network modules being utilized.

OPERATION

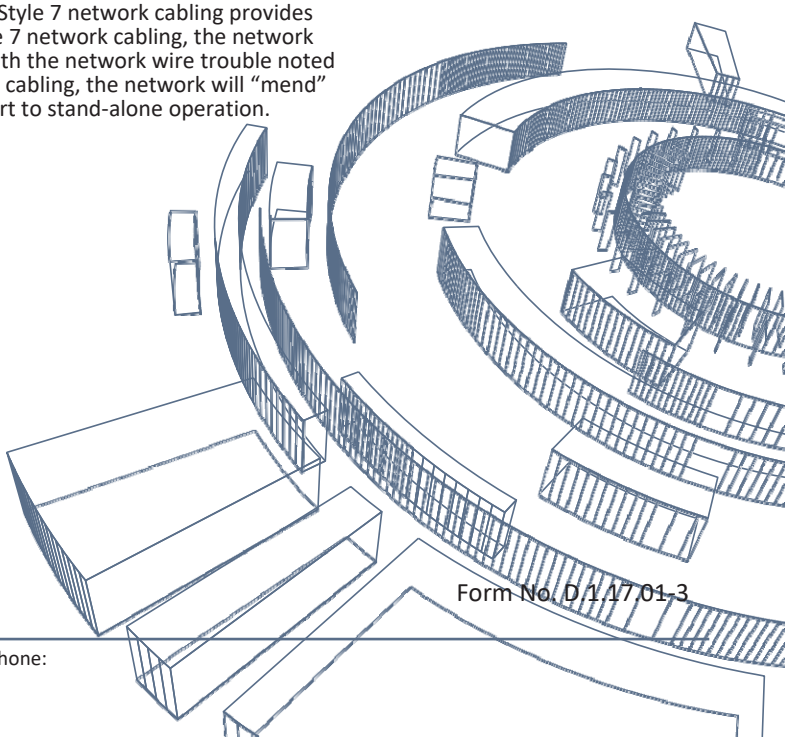
Custom messages from each panel will travel across the network to other panels by default. All network information is displayed in each panel’s history. If the network module is programmed to participate in the zone active, it will also activate its local piezo and programmed outputs. Press F1 to locate the panel that created the event.

Switch Operation from each panel will travel across the network to other panels by default (Global switch operation). This allows the associated panel to be reset, silenced, acknowledged, or activation of drill function from any other network panel. If the network module is programmed as “Local” only, the associated panel will only respond to switch commands from the selected panels specified in the system configuration.

The network cabling can be run NFPA Class B, Style 4 or Class A, Style 7. Style 7 network cabling provides the greatest overall system reliability. If a break should occur in the Style 7 network cabling, the network will “mend” itself around the break and continue to operate normally with the network wire trouble noted as “System Trouble”. If a break should occur when using Style 4 network cabling, the network will “mend” itself by forming two stand-alone networks. Any isolated panel will revert to stand-alone operation.

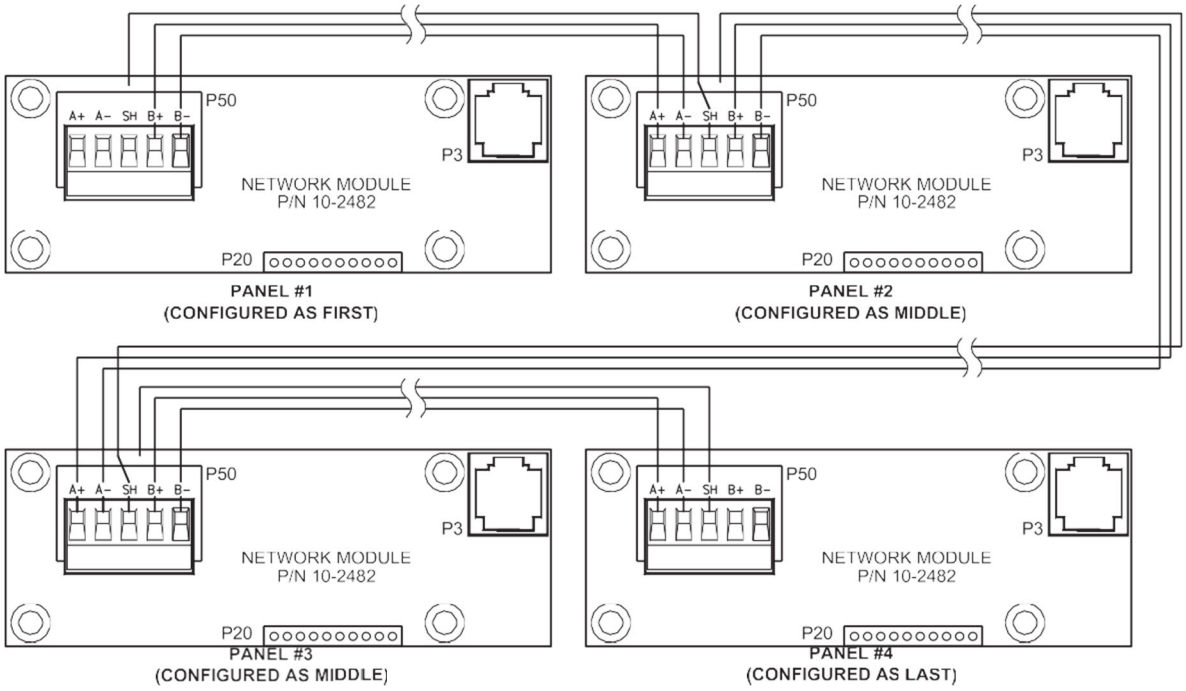
ORDERING INFORMATION

Fike P/N	Description
10-2482	RS485 Network Module
02-12031	Standoff Hardware Kit (kit includes P/N 02-3794 and 02-1589)
02-3794	Standoff, 1.25” F/F, 6x32 hex (qty 4)
02-1589	Screw, 6-32 x 0.375 Phillips (qty 8)

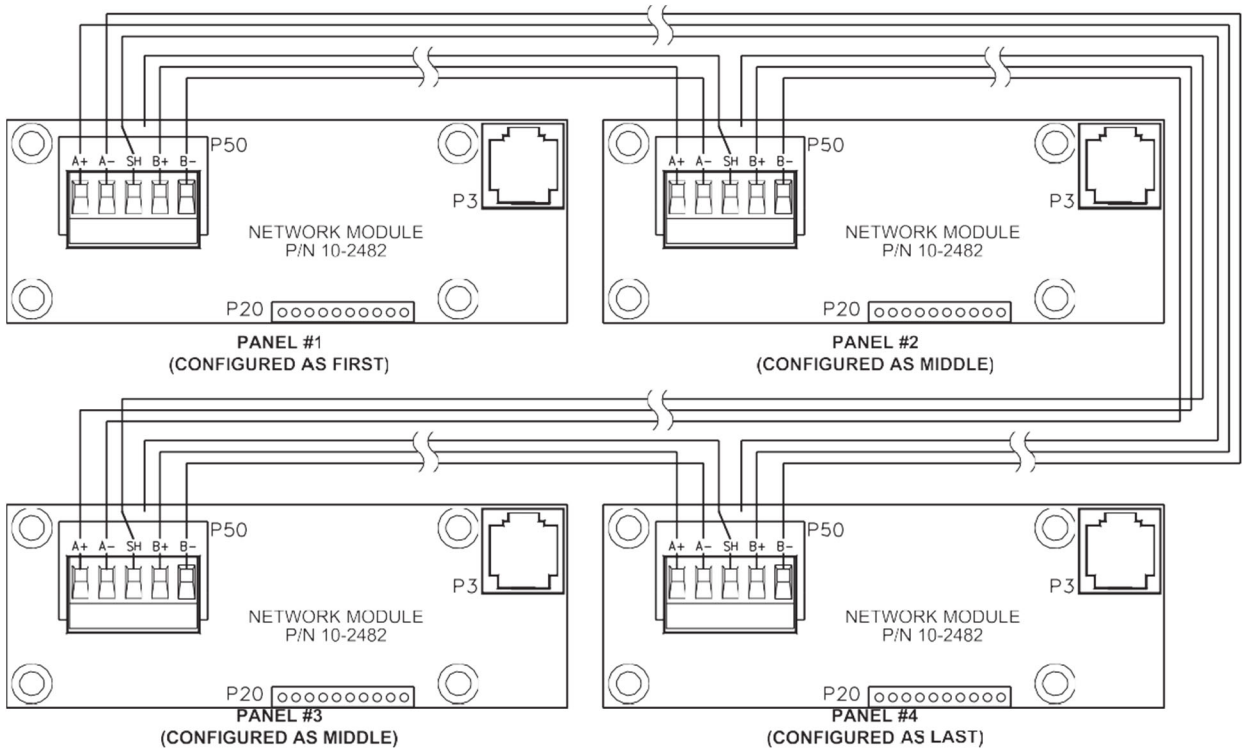


704 SW 10th Street • P.O. Box 610 • Blue Springs, Missouri 64013-0610 U.S.A. Phone: 816•229•3405 • www.fike.com

WIRING DIAGRAMS



Network Wiring Diagram – Style 4



Network Wiring Diagram – Style 7

Note: No T-tapping is allowed on network circuit.

Form No. D.1.17.01-3, October 2013. Specifications are subject to change without notice.