RS485 NETWORK MODULE

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

<table>
<thead>
<tr>
<th>Fike P/N</th>
<th>Description</th>
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<tbody>
<tr>
<td>10-2482</td>
<td>RS485 Network Module</td>
</tr>
<tr>
<td>02-12031</td>
<td>Standoff Hardware Kit (kit includes P/N 02-3794 and 02-1589)</td>
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<tr>
<td>02-3794</td>
<td>Standoff, 1.25” F/F, 6x32 hex (qty 4)</td>
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<tr>
<td>02-1589</td>
<td>Screw, 6-32 x 0.375 Phillips (qty 8)</td>
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Network Wiring Diagram – Style 4

Network Wiring Diagram – Style 7

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