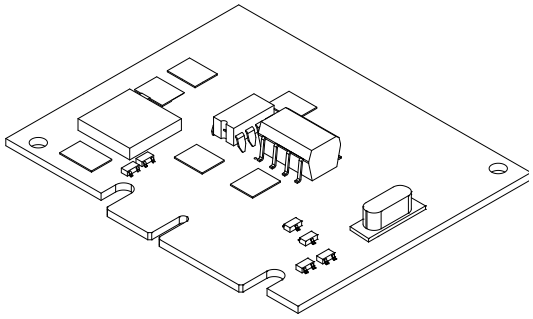
VM-ETH Ethernet Adapter Card Installation Sheet



Description

The VM-ETH Ethernet Adapter Card provides a standard 10/100BaseT Ethernet network connection for control panel programming and diagnostics. It also provides transmission of system events to central monitoring stations (CMSs), computers running FireWorks, and SMTP email servers.

The following table below describes the available models.

Models

Number	Description
VM-ETH1	Supports panel programming and diagnostics, and communication with a computer running FireWorks
VM-ETH2	Supports panel programming and diagnostics, and communication with a computer running FireWorks and a CMS
VM-ETH3	Supports panel programming and diagnostics, and communication with a computer running FireWorks, a CMS, and an SMTP email server

Installation

Install and wire the adapter card in accordance with applicable national and local codes, ordinances, and regulations.

WARNING: Electrocution hazard. To avoid personal injury or death from electrocution, remove all sources of power and allow stored energy to discharge before installing or removing equipment.

Cautions

- Equipment damage hazard. This product is sensitive to electrostatic discharge (ESD). To avoid damage, follow accepted ESD handling procedures.
- If removing the VM-CPU main board, first pull out the four plungers securing it to the electronics chassis. Failure to do so can result in damage to the main board.

To install the adapter card:

1. Plug the card into J3 on the back of the VM-CPU main board. See Figure 1.
2. Position the restraining bracket recess over the card, and then insert the bracket hooks into the slots on the VM-CPU. See Figure 2.
3. Push the plunger (Figure 2, item 2) through the front of the VM-CPU and into the restraining bracket, and then push the locking pin (item 1) into the plunger to secure it.

Figure 1: Installing the adapter card

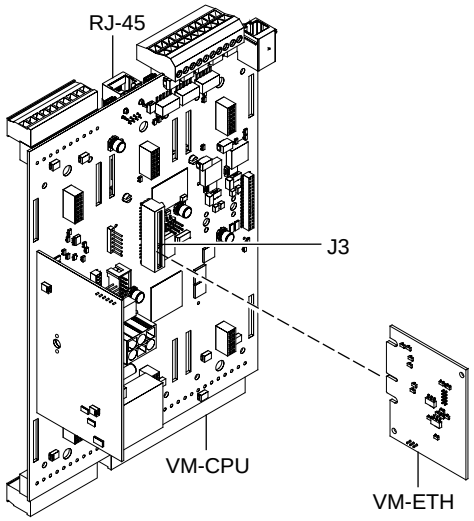
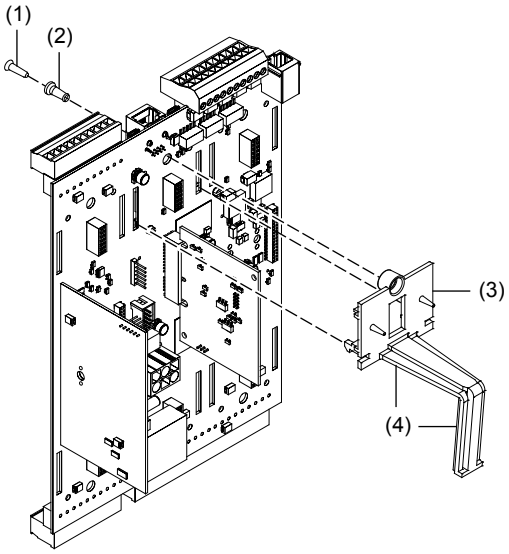


Figure 2: Mounting the restraining bracket on the adapter card



(1) Locking pin
(2) Plunger
(3) Restraining bracket
(4) Bracket recess

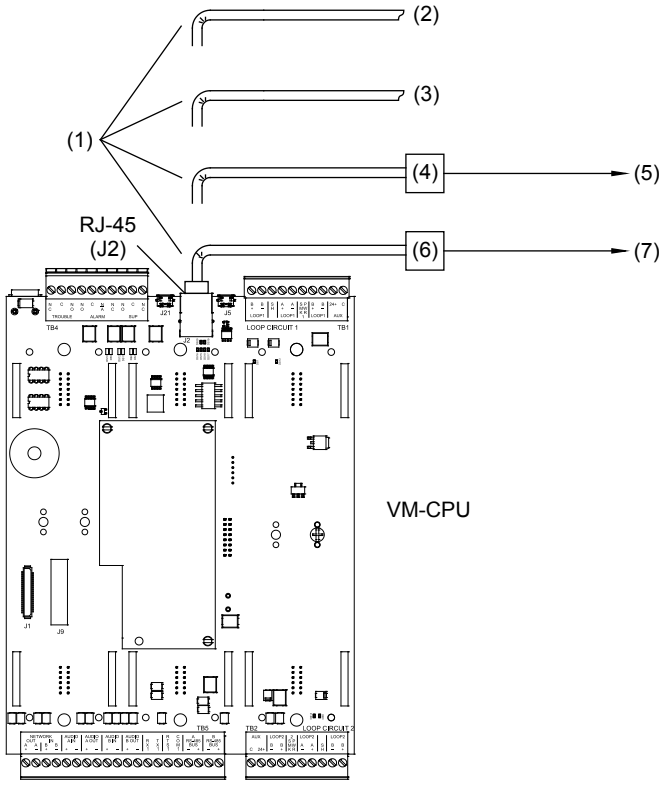
Wiring

Connect field wiring as shown if Figure 3.

Notes

- Wiring is power-limited and unsupervised.
- Maintain 0.25 in. (6 mm) separation between power-limited and nonpower-limited wiring at all times.

Figure 3: Ethernet wiring



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Legend

(1) RJ-45 Ethernet patch cable, Cat 5e or better
(2) To the RJ45 connector on a PC with the VM-CU for panel programming and diagnostics.
(3) To the RJ-45 connector on a FireWorks workstation. For wiring details, see the FireWorks documentation.
(4) Ethernet switch. For switch wiring details, see the switch installation sheet.
(5) To a FireWorks workstation via a switch. For wiring details, see the FireWorks documentation.
(6) Building infrastructure switch or hub. For wiring details, consult with the local IT department for infrastructure specifications and to the obtain switch or hub manufacturer installation sheet.
(7) To a CMS receiver or SMTP server via local IT department specifications. For wiring details to the receiver or server, see the manufacturer installation sheet.

Notes

- If not using a dedicated network, consult with the local IT department for firewall port settings.
- Consult with FireWorks system, central monitoring station, and SMTP server administrators to gather IP configuration information required for programming.

Specifications

Ethernet	10/100BaseT
Voltage	24 VDC
Current	
Standby	42 mA (54 mA when connected to a network)
Alarm	42 mA at 24 VDC
Connection mode	Autonegotiation
Wiring	
Cable type	Ethernet patch cable, Cat 5e or better
Connector type	RJ-45
Distance	Panel to equipment: 328 ft. (100 m) max.
IP address	192.168.1.3 (default)
Subnet mask	255.255.255.0 (default)
Default port ID	2501
Gateway	0.0.0.0 (default)
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Relative humidity	0 to 93% noncondensing

Regulatory information

FCC compliance	This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Environmental class	UL: Indoor dry

Contact information

For contact information, see www.kiddelifesafety.com.