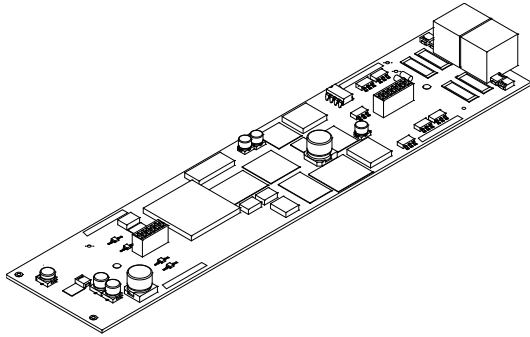


# VM-DACT Dual Line Dialer Card Installation Sheet



## Description

The VM-DACT Dual Line Dialer is designed with capabilities that provide communication between the VM-1 control panel and remote locations over a telephone line system. The VM-DACT transmits system status changes (events) to a compatible digital alarm communicator receiver over a public switched telephone network or cellular network when used with a compatible cellular capture module. The VM-DACT queues messages and transmits them based on priority (alarm, supervisory, and trouble).

The VM-DACT dialer is capable of single, dual, or split reporting of events to two different account and telephone numbers.

## Installation

Install and wire the VM-DACT in accordance with applicable national and local codes, ordinances, and regulations.

## WARNINGS

- Remove AC and battery power before installing or removing option modules.
- The VM-DACT does not place calls or monitor the panel or phone line during the programming process.
- When programming emergency numbers and/or making test calls to emergency numbers:
  - Remain on the line and briefly explain to the dispatcher the reason for the call.
  - Perform such activities in the off-peak hours, such as early morning or late evenings.
- It is up to the installer to verify DACT and receiver compatibility at least once per year.

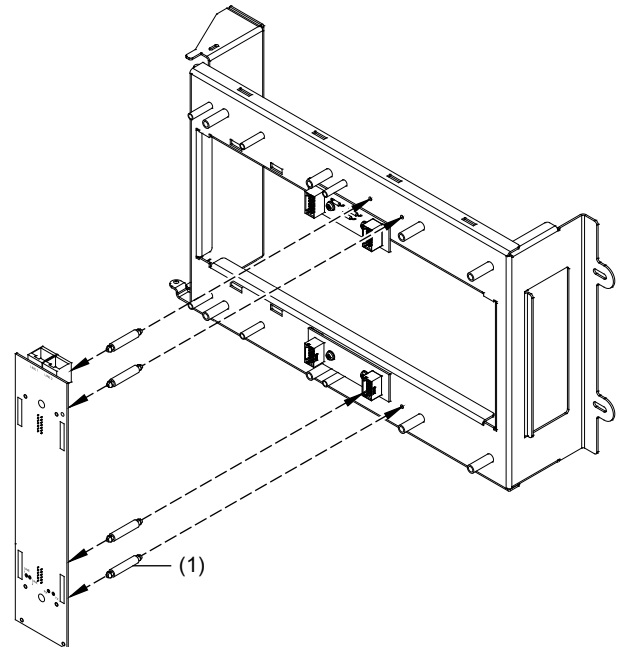
**Caution:** Equipment damage hazard. This product is sensitive to electrostatic discharge (ESD). To avoid damage, follow accepted ESD handling procedures.

**Note:** For CAN/ULC-S559 compliant configurations for fire signal receiving center and proprietary fire signal receiving center applications refer to the *Canadian Marketplace Manual* for your system.

## To install the VM-DACT:

1. If the VM-LCD User Interface and D12LS-VM control-indicating mounting frame are installed on the electronics chassis, remove them to access the chassis.
2. Snap the four standoffs provided into the VM-DACT card as shown in Figure 1. Make sure to insert the end that has two small flanges that lock into the card.
3. Insert the other end of the card-mounted standoffs into the mounting holes on the electronics chassis.
4. Gently push the card until it is firmly seated.
5. Connect the field wiring. See "Wiring" below.
6. Reinstall the VM-LCD user interface and D12LS-VM control-indicating mounting frame, if they were previously removed.
7. Install a control-indicating module or filler plate over the VM-DACT, as needed.

Figure 1: Installing the VM-DACT



(1) 0.875 × 0.125 nylon standoff (4X) (P/N 9100205)

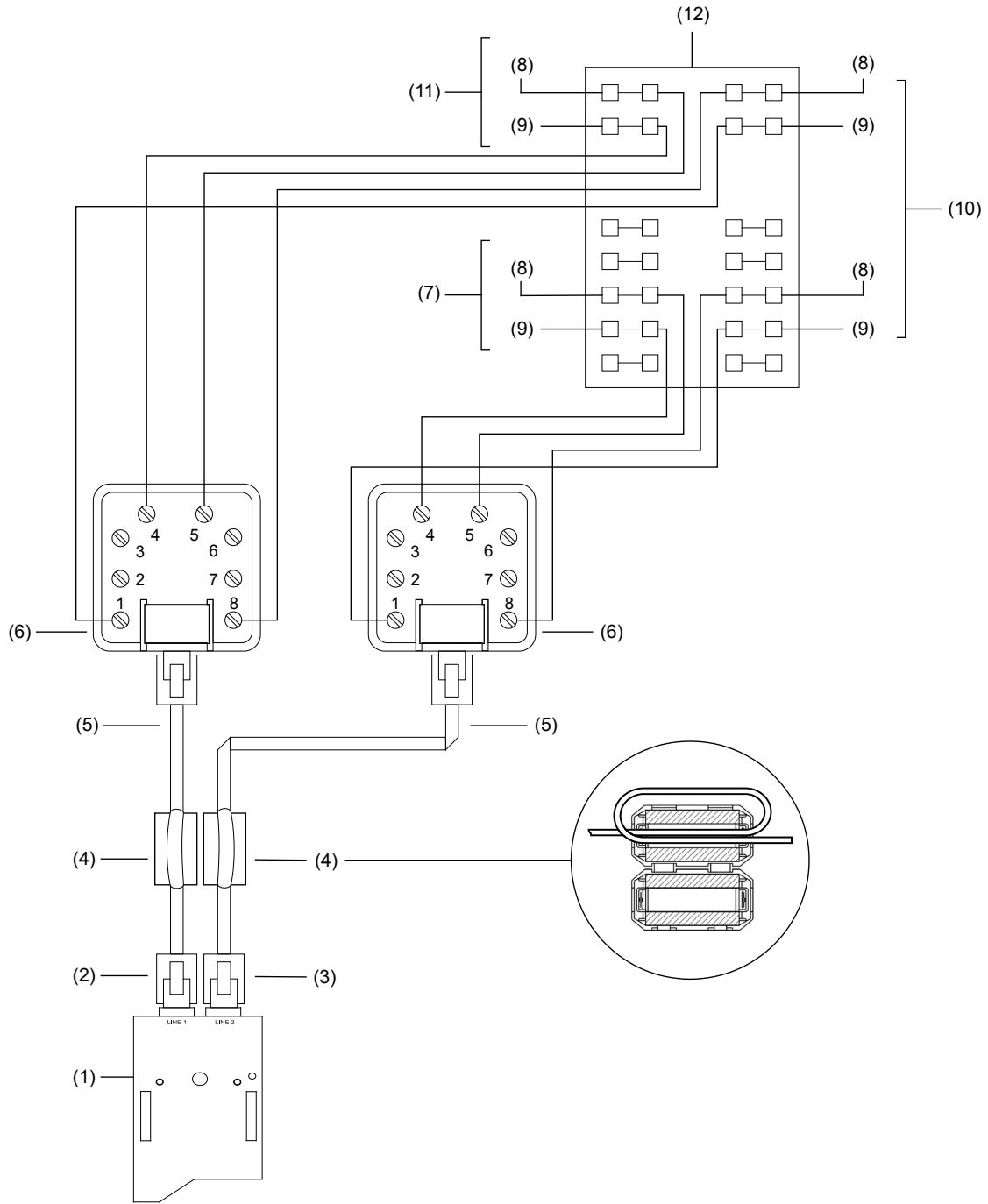
## Wiring

Connect the VM-DACT field wiring as shown in Figure 2 through Figure 4.

## Notes

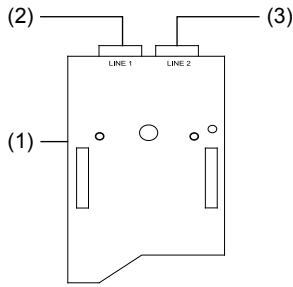
- Wiring is supervised and power-limited.
- T-taps are not permitted.
- Maintain 0.25 in. (6 mm) separation between power-limited and nonpower-limited wiring at all times. Keep nonpower-limited wiring in the shaded area shown in Figure 4. Secure the wiring to the cabinet using nylon cable ties.
- In order for the dialer to be able to seize the phone line to report an alarm or other event when other customer equipment connected to the same line is in use, the dialer must be connected to an RJ-31X jack. The jack must be connected in series with, and ahead of, all other equipment attached to the same phone line.
- Install RJ-31X jacks within 5 ft. (1.5 m) of the control panel.
- Install ferrite clamps (P/N 2250002) on a modular phone cord before it leaves the cabinet. Loop the modular phone cord once around the ferrite clamp.

Figure 2: Wiring to a POTS



- |                                 |  |  |
|---------------------------------|--|--|
| (1) VM-DACT                     | (5) Modular phone cord (supplied by installer) | (9) Ring                                 |
| (2) Line 1                      | (6) RJ-31X (supplied by installer)             | (10) PBX                                 |
| (3) Line 2                      | (7) Telco line 2                               | (11) Telco line 1                        |
| (4) Ferrite clamp (P/N 2250002) | (8) Tip  | (12) Protected premises punch down block |

**Figure 3: Wiring to a cellular capture module**



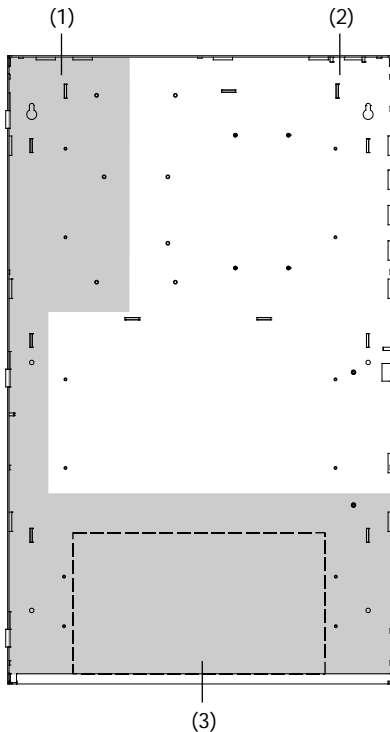
**Legend**

- (1) VM-DACT
- (2) Line 1
- (3) Line 2

**Notes**

- Refer to the *Cellular Capture Module Configuration Application Guide* (P/N 3102371-EN) for specific settings and wiring that must be used to meet UL and ULC Agency requirements for FACU communication with compatible cellular capture modules. The application guide can be downloaded from the My-Eddie website. Refer to the manufacturer installation manual received with the module for other settings and wiring requirements.
- The optional Panel Presence Failure Condition (PPFC) offered for the cellular capture modules is *not* supported when the module is connected to line 2 of the VM-DACT. The cellular capture module must be connected to line 1 if the PPFC function is selected.

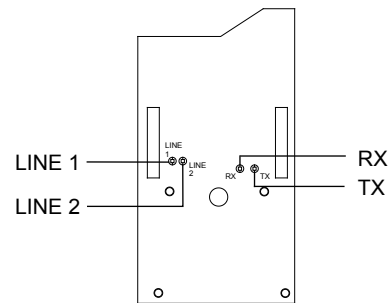
**Figure 4: Power-limited and nonpower limited wiring**



- (1) Nonpower-limited wiring area
- (2) Power-limited wiring area
- (3) Battery area

**LED indicators**

**Figure 5: VM DACT LEDs**



**VM DACT LED descriptions**

Label	Description
Line 1	Indicates line 1 activity
Line 2	Indicates line 2 activity
RX	Indicates receive activity
TX	Indicates transmit activity

**Specifications**

Voltage	24 VDC
Input power	
Supervisory	60 mA
Active	95 mA
Output	19.2 or 38.4 Kbps
Output current	100 mA max.
Telephone	
Line	One/two loop start-line on PSTN, pulse, or DTMF dialing (party, ground start, and PBX lines are not acceptable)
Dialer protocols	
Contact ID	DTMF format
Dialing retries	Programmable
CMS telephone numbers	80 25-digit numbers
Wall connector	Standard RJ-31X or RJ-38X phone jack

Cellular	
Compatible capture modules	Refer to the <i>VM-1 Compatibility List</i> (P/N 3101804-EN)
Connectors	Refer to the installation manual received with the cellular capture modules
Line supervision trouble	On-hook line voltage < 10 V Off-hook current < 10 mA
Telco compliance	Communications Canada CS-03, FCC/CFR 47 Part 68
FCC registration number	EDWUSA-47115-AL-E
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Relative humidity	0 to 93% noncondensing

## Regulatory information

FCC compliance [1]	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

[1] Refer to the technical reference manual for your panel for additional FCC and Industry Canada information.

## Contact information

For contact information, see [www.kidde-lifesafety.com](http://www.kidde-lifesafety.com).