LTEM-PV and LTEM-PA
LTEM-P Series Communicators

Installation Supplement
(Connections for Non-VISTA Control Panels)

Refer to the LTEM-P Series Installation and Setup Guide R800-26394 dated 10/20 or later for additional information regarding the installation and programming of the LTEM-P communicator.

General Information

The LTEM-P communicator supports Resideo control panels that use ECP data communication with communicators (ex. VISTA controls) and supports compatible non-Resideo control panels. This supplement contains information for connecting the LTEM-P communicator to compatible control panels that do **not** support communicators using ECP data communication (i.e., non-VISTA / non-Resideo control panels).

Depending on the control panel, connections are made at the communicator's bus terminals and/or the optional PRODCM Dialer Capture module* that is installed on the communicator. Reports are sent in Contact ID format.

Check the control panel's instructions and the communicator's *Installation and Setup Guide* for wire length/gauge limitations.

* Refer to the control panel instructions, the *PRODCM Dialer Capture Model* instructions (R800-26711), and the *Dialer Capture Module* section in the *LTEM-P Series Installation and Setup Guide* (R800-26394) for information regarding the use and installation of the PRODCM Dialer Capture module.

UL NOTE: The configurations described in this supplement have not been evaluated by UL.

This table lists the types of connections for non-VISTA control panels.

Control Panel	Connection to the Communicator
DSC PowerSeries (PC) control panels	Connects to the communicator's bus terminals. See *Wiring for DSC Control Panels* section.
Interlogix NetworX (NX) Series control panels	Connects to the communicator's bus terminals and the PRODCM Dialer Capture module terminals*. See *Wiring for Interlogix Control Panel Connections* section.
Other non-VISTA control panels	Control panel's telco Ring (R) and Tip (T) terminals connect to the installed PRODCM Dialer Capture module terminals*.

Supervision Fault (Panel Sync Failure) Indication: If a panel sync failure occurs during the communicator reboot/power up after installation with a non-Resideo control panel, the communicator LEDs will continue to blink from top to bottom in the boot up marching sequence for up to 10 minutes. During this time, the installer should determine and correct the cause of the sync failure (clear panel alarms, faults, and troubles; disarm the control; clear alarm memory, etc.). If the sync failure is corrected within the 10-minute period, the LEDs enter normal operation mode. However, if the sync failure persists after the 10-minute period, the LEDs enter normal mode, but a supervision fault message is sent.

Wiring for DSC Control Panels

This section applies to the following DSC PowerSeries™ (PC) control panels:

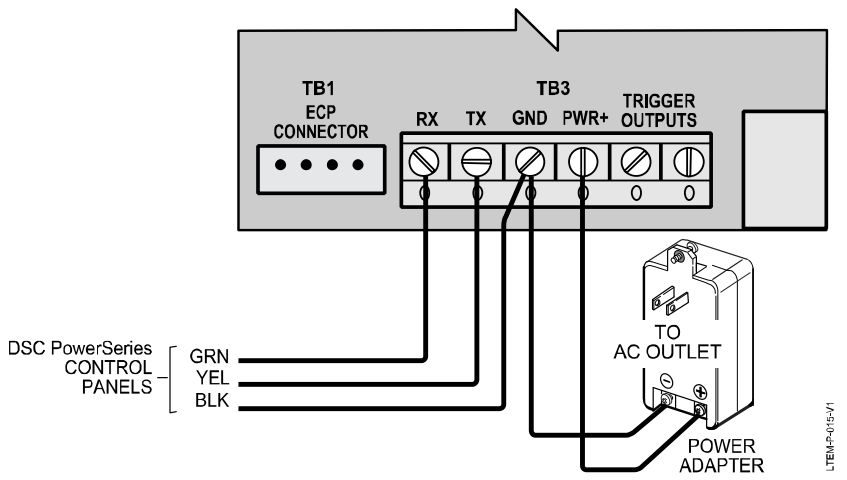
- PC1616
- PC1832
- PC1864

1. Connect the control panel terminals labeled Black (**BLK**), Yellow (**YEL**), and Green (**GRN**) to the communicator's **GND**, **TX**, and **RX** terminals respectively. See diagram.
2. Connect the power adapter wires to the communicator's **PWR+** and **GND** terminals as shown. Observe polarity.
3. Secure the wiring with cable ties as necessary. Cable tie anchor points are provided on the communicator's back case below the terminal block.
4. Refer to the control panel's installation manual for details on programming the control panel.
5. After control panel programming is completed and the communicator is connected, make sure the control panel is in the "Ready to Arm" state with no alarms or faults present. The following control panel fault/trouble conditions must be cleared before rebooting the communicator:
   - General System Trouble
   - General System Tamper
   - General System Supervisory
   - Telephone Line Trouble
   - Comm Fail Trouble
   - Zone Fault

   Refer to the *Clearing DSC Control Panel Trouble Conditions* section that follows for details on how to clear these trouble conditions.
6. After all troubles, faults, and alarms have been cleared and the control panel is disarmed, reboot/power up the communicator then connect the battery.

   The communicator may take up to 90 seconds to reboot, then take up to an additional 5-10 minutes to fully sync with the control panel. During this time, the communicator LEDs blink in repeated sequence from top to bottom (power-up sequence) while the communicator scans the control panel's partitions and zones. See **Supervision Fault (Panel Sync Failure) Indication** note at top of page.

After any programming changes are made to non-VISTA control panels, the communicator must be reset/rebooted (press and hold the Test switch for 10 seconds).



Connections for DSC PowerSeries Control Panels

Powering the communicator from a source other than the 9VDC Power Adapter may cause unexpected results, including reduced battery backup time.

After reboot/power up, the communicator can take about 5-7 minutes to complete the scan of the control panel's partitions and zones. The control panel must be in the "Ready" state (no alarms or faults) in order to perform the scan.

If using the communicator's Fault Trigger Output, make sure a common ground connection is made between the communicator's GND (terminal 3) and the control panel's Aux NEG (–) or any common zone ground. See the communicator's Installation and Setup guide for more information regarding the Fault Trigger Output.

Clearing DSC Control Panel Trouble Conditions

Perform the following steps to clear various types of DSC control panel trouble conditions

General System Trouble

This trouble condition may be generated by issues with the PC5204 (power supply module) and/or PC5400 (printer module).

For PC5204, install a 1k resister from terminal O1 to AUX if Output 1 is unused. Also check that the wires are in good condition by measuring resistance.

General System Tamper

This trouble condition may be generated by expander modules and other types of modules. Please check that the tamper switches on expander and other modules are not being triggered.

For zone expander modules, you can install a 1k resistor from the tamper terminal to ground. This condition cannot be cleared through panel programming.

General System Supervisory

Check all module connections to the control panel. Correct any wiring issues.

1. Press [∗] 8 to enter programming mode.
2. Enter the Installer code.
3. Enter 9-0-2.
4. Wait 1 minute.
5. Press [#].
6. Enter 9-0-3.
7. Check that all modules are being supervised.
8. Press [#] [#] to exit programming mode.

Telephone Line Trouble

To clear Telephone Line trouble, disable telephone line trouble reporting.

1. Press [∗] 8 to enter programming mode.
2. Enter the Installer code.
3. Enter 0-1-5.
4. Turn off option 7 (on LED keypad, 7 should be off).
5. Press [#] [#] to exit programming mode.

Comm Fail Trouble

1. Press [∗] 8 to enter programming mode.
2. Enter the Installer code.
3. Enter 3-8-0 (Tel Communicator options).
4. Turn off 1 (Tel Communications Disabled).
5. Press [#] [#] to exit programming mode.

Alternatively, you can also do the following:

1. Press [∗] 6.
2. Press 4 (System test).

Trouble should disappear.

Zone Fault

1. Press [∗] 1 to enter Zone Bypass menu.
2. Enter the 2-digit Zone number showing fault (ex. 01, 07, 12 etc.).
3. Press [#].
4. Repeat for all faulted zones.

Wiring for Interlogix Control Panels

This section applies to the following Interlogix NetworX (NX) Series control panels:

- NX-8E
- NX-4V2
- NX-6V2
- NX-8V2

1. Connect the control panel's **DATA** and **COM** terminals to the communicator's **RX** and **GND** terminals respectively. See diagram.
2. Connect the power adapter wires to the communicator's **PWR+** and **GND** terminals as shown. Observe polarity.
3. Install the PRODCM Dialer Capture module on the communicator. Refer to the *PRODCM Dialer Capture Model* instructions (R800-26711) and the *Dialer Capture Module* section in the *LTEM-P Series Installation and Setup Guide* (R800-26394) for information regarding the use and installation of the PRODCM Dialer Capture module.
4. Connect the Dialer Capture module's terminals to the control panel's Telco Ring (R) and Tip (T) terminals (do not connect to terminals R1/T1). (module terminals have no Ring/Tip polarity)
5. Secure the wiring with cable ties as necessary. Cable tie anchor points are provided on the communicator's back case below the terminal block.
6. Refer to the control panel's installation manual for details on programming the control panel. See Programming Notes below.
7. After control panel programming is completed and the communicator is connected, make sure the control panel is in the "Ready to Arm" state with no alarms or faults present.
8. After all troubles, faults, and alarms have been cleared and the control panel is disarmed, reboot/power up the communicator then connect the battery.

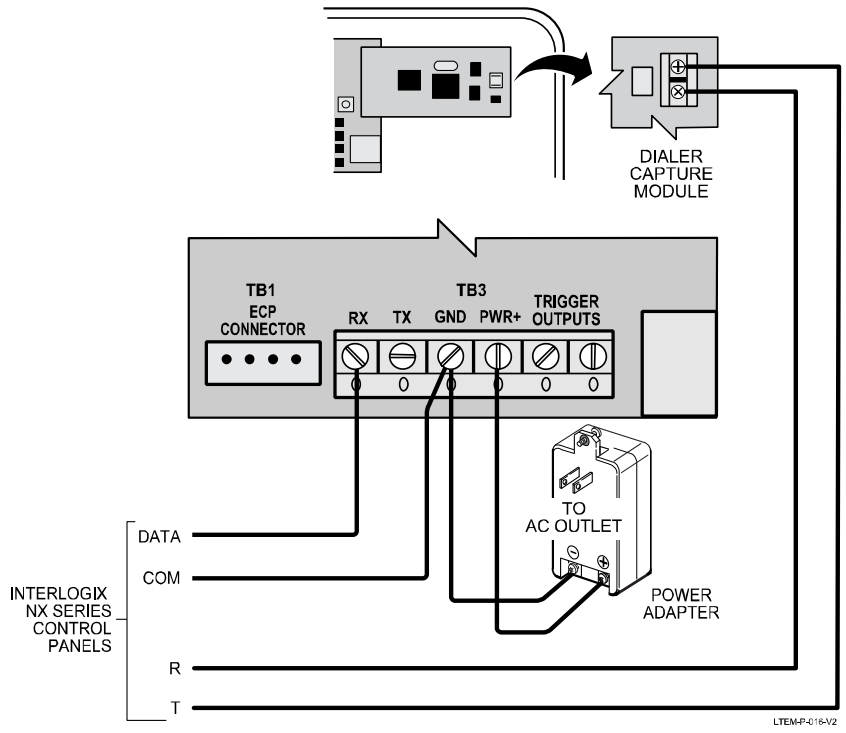
   The communicator may take up to 90 seconds to reboot, then take up to an additional 5-10 minutes to fully sync with the control panel. During this time, the communicator LEDs blink in repeated sequence from top to bottom (power-up sequence). See **Supervision Fault (Panel Sync Failure) Indication** note at top of page 1.

Programming Notes for Interlogix NX Series Control Panels

- Location 0: Phone number 1 first segment must be 15 for tone dialing.
- Location 2: Report format must be 13 for Ademco Contact ID format.
- Location 23: Segment 3 should be all enabled (or 12345678 to enable all reports), otherwise some alarm reports will be missed via the dialer.

After any programming changes are made to non-VISTA control panels, the communicator must be reset/rebooted (press and hold the Test switch for 10 seconds).

Connection to an Interlogix control panel requires installation of the PRODCM Dialer Capture Module in the communicator.



Connections for Interlogix NX Series Control Panels

Powering the communicator from a source other than the 9VDC Power Adapter may cause unexpected results, including reduced battery backup time.

If using the communicator's Fault Trigger Output, make sure a common ground connection is made between the communicator's GND (terminal 3) and the control panel's Aux NEG (–) or any common zone ground. See the communicator's Installation and Setup guide for more information regarding the Fault Trigger Output.

Wiring for Other Non-VISTA Control Panels

For non-VISTA controls that send Contact ID alarm signals via the control panel's dialer, the optional Dialer Capture module (PRODCM) can be used. The Dialer Capture module replaces the phone line and simulates the phone service to the control panel. The alarms are then sent to AlarmNet for routing to the central monitoring station.

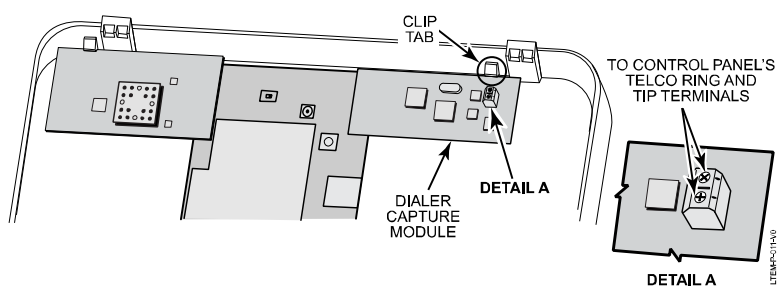
To install the PRODCM Dialer Capture module, refer to the control panel's instructions, the *PRODCM Dialer Capture Model* instructions (R800-26711), and the *Dialer Capture Module* section in the *LTEM-P Series Installation and Setup Guide* (R800-26394).

Installation steps are summarized below:

1. Power down the communicator and disconnect the battery.
2. Install the Dialer Capture module by mating the module's connector to the edge connector on the upper right side of the communicator's PCB. Make sure the module is fully seated in the connector. Slip the module board under the snap tab to lock it in place as shown.
3. Connect the control panel's Telco Ring (R) and Tip (T) terminals individually to the terminals on the Dialer Capture module (module terminals have no Ring/Tip polarity). See diagram.
4. Secure the wiring with cable ties as necessary. Cable tie anchor points are provided on the communicator's back case below the terminal block.
5. Refer to the control panel's installation manual for details on programming the control panel.
6. After control panel programming is completed and the communicator is connected, make sure the control panel is in the "Ready to Arm" state with no alarms or faults present.
7. After all troubles, faults, and alarms have been cleared and the control panel is disarmed, reboot/power up the communicator then connect the battery.

   The communicator may take up to 90 seconds to reboot, then take up to an additional 5-10 minutes to fully sync with the control panel. During this time, the communicator LEDs blink in repeated sequence from top to bottom (power-up sequence). See **Supervision Fault (Panel Sync Failure) Indication** note at top of page 1.

After any programming changes are made to non-VISTA control panels, the communicator must be reset/rebooted (press and hold the Test switch for 10 seconds).



Dialer Capture Module Connections

Do not connect the outside phone line to either the Dialer Capture module or the control panel. There should be no connection to the outside phone line when using the Dialer Capture module.

For replacement installations, make sure to disconnect the outside phone line when using the Dialer Capture module with the communicator.

Powering the communicator from a source other than the 9VDC Power Adapter may cause unexpected results, including reduced battery backup time.

If using the communicator's Fault Trigger Output, make sure a common ground connection is made between the communicator's GND (terminal 3) and the control panel's Aux NEG (–) or any common zone ground. See the communicator's Installation and Setup guide for more information regarding the Fault Trigger Output.

The product should not be disposed of with other household waste. Check for the nearest authorized collection centers or authorized recyclers. The correct disposal of end-of-life equipment will help prevent potential negative consequences for the environment and human health.

Any attempt to reverse-engineer this device by decoding proprietary protocols, de-compiling firmware, or any similar actions is strictly prohibited.

This product manufactured by Resideo Technologies, Inc. and its affiliates

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