



C1919M-E (9/04) PV140 RS-232/422 Converter Kit Installation

Description

The PV140 RS-232/422 Converter Kit provides a bi-directional electrical interface between RS-232 and RS-422 data ports. This allows any application that requires an RS-232 device to connect to an RS-422 or RS-485 port on Pelco products. RS-422 and RS-485 ports are found on Pelco switchers, multiplexers, keyboards, and camera control receivers.

For example, you can connect a PelcoNet transmitter/receiver to a Spectra II, KBD300, Genex Multiplexer, or CM9760-CC1 using a PV140.

The power supply allows the PV140 to communicate serial port data over wire pairs for distances up to 4,000 feet (1,219 m) on the RS-422 side.

You must supply all necessary cables between the converter and the receivers.

Installation

Package Contents:

- RS-232/422 Converter
- 12 VDC Power Supply, 1.2W

Control Connections

1. Connect the 9-pin DB9 side of the converter to the COM port on the receiver or transmitter.
2. Wire the receiver's RX- and RX+ terminals to the converter's TX- and TX+ terminals. Use a 120-ohm resistor, if necessary, to terminate the line at the receiver's RX- and RX+ terminals.

NOTE: Proper operation of an RS-422 circuit requires that the active devices at both ends of the communications facility be referenced to a common ground, such as earth. If the ground is established through a metallic conductor, we recommend that 100-ohm resistors be placed in series with the ground connection at each end (refer to Figure 2). This limits any currents that can be caused by other ground paths.

Connecting the Power Supply

1. Connect the black/white stripe wire to the converter's +12 VDC terminal and the solid black wire to the GND terminal.
2. Plug the power supply into a 115 VAC wall outlet or power strip.

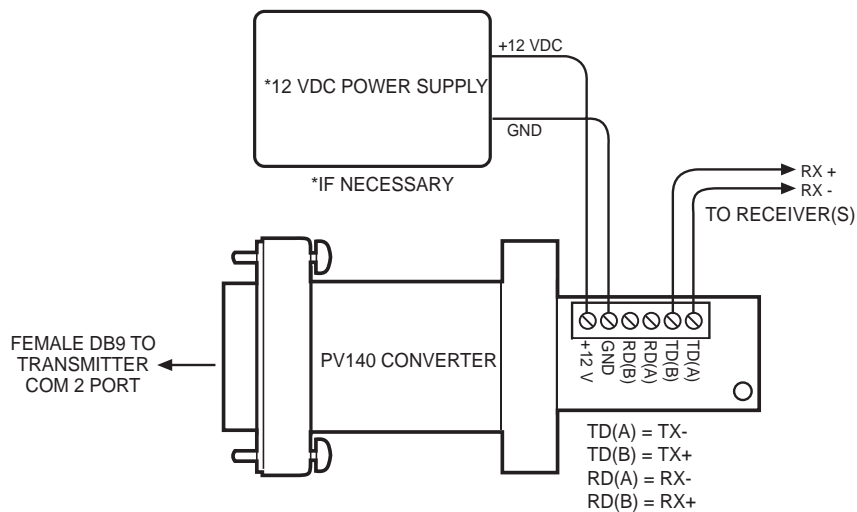


Figure 1. Connection Diagram

Troubleshooting

Why is there no control?

- Transmitter DIP switch settings or programming incorrect for receiver type
- Transmitter COM 2 port baud rate and/or parity programming incompatible with receiver type
- Converter-to-receiver twisted pair connections reversed or wired incorrectly
- Power supply +12 VDC and GND connections to converter reversed

Why is the control erratic?

- Cabling between converter and receiver incompatible with RS-422 operation
- Wire distance between converter and receiver requires suitable termination at receiver
- Wire distance between converter and receiver exceeds 4,000 feet
- Video coax cable has Coaxitron, or other "up-the-coax" control information present

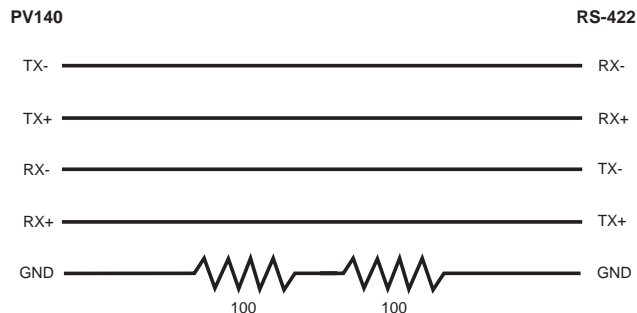


Figure 2. RS-422 Circuit Wiring Diagram

PRODUCT WARRANTY AND RETURN INFORMATION

WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship for a period of one year after the date of shipment.

Exceptions to this warranty are as noted below:

- Five years on FT/FR8000 Series fiber optic products and the following fixed camera models: CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and CC3651H-2X.
- Three years on all other fixed camera models (including Camclosure® Integrated Camera Systems) and Genex® Series (multiplexers, server, and keyboard).
- Two years on all standard motorized or fixed focal length lenses.
- Two years on Legacy®, CM6700/CM6800/CM8500/CM9500/CM9740/CM9760 Matrix, DF5 and DF8 Series Fixed Dome products.
- Two years on Spectra®, Esprit®, and PS20 Scanners, including when used in continuous motion applications.
- Two years on Esprit® and WW5700 series window wiper (excluding wiper blades).
- Eighteen months on DX Series digital video recorders and NVR300 series network video recorder.
- One year (except video heads) on video cassette recorders (VCRs). Video heads will be covered for a period of six months.
- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, preset scan, tour and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to Pelco, Clovis, California. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental or consequential damages (including loss of use, loss of profit and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

1. Model and serial number
2. Date of shipment, P.O. number, Sales Order number, or Pelco invoice number
3. Details of the defect or problem

If there is a dispute regarding the warranty of a product which does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

RETURNS

In order to expedite parts returned to the factory for repair or credit, please call the factory at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair).

All merchandise returned for credit may be subject to a 20% restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid. Ship to the appropriate address below.

If you are located within the continental U.S., Alaska, Hawaii or Puerto Rico, send goods to:

Service Department
Pelco
3500 Pelco Way
Clovis, CA 93612-5699

If you are located outside the continental U.S., Alaska, Hawaii or Puerto Rico and are instructed to return goods to the USA, you may do one of the following:

If the goods are to be sent by a COURIER SERVICE, send the goods to:

Pelco
3500 Pelco Way
Clovis, CA 93612-5699 USA

If the goods are to be sent by a FREIGHT FORWARDER, send the goods to:

Pelco c/o Expeditors
473 Eccles Avenue
South San Francisco, CA 94080 USA
Phone: 650-737-1700
Fax: 650-737-0933

REVISION HISTORY

| Manual # | Date | Comments |
|----------|-------|--|
| C1919M | 9/97 | Original version. |
| C1919M-A | 3/00 | Revised installation instructions and Figure 1. Added Figure 2. |
| C1919M-B | 7/00 | Corrected RX polarity in Figure 1. |
| C1919M-C | 11/00 | Revised drawings to reflect label change. |
| C1919M-D | 3/02 | Removed PelcoVision application information. Added information on using other products with the converter. |
| C1919M-E | 9/04 | Replaced PV130 with PV140. |

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