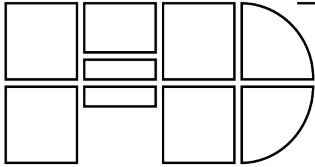


Only PI3 available.



# FUNCTIONAL DEVICES, INC

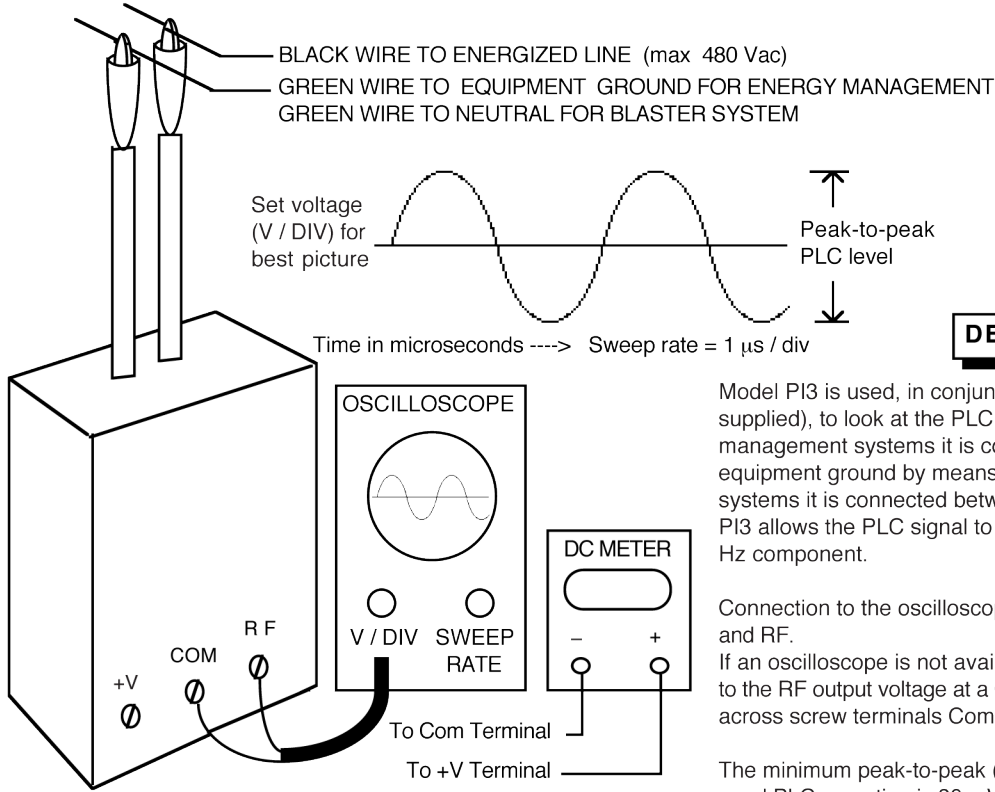
DATA SHEET D369A  
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## POWER-LINE CARRIER

### TEST INSTRUMENTS

PI3----- PORTABLE INJECTOR  
CSTT-- TEST TRANSMITTER

## MODEL PI3 PORTABLE INJECTOR



### DESCRIPTION

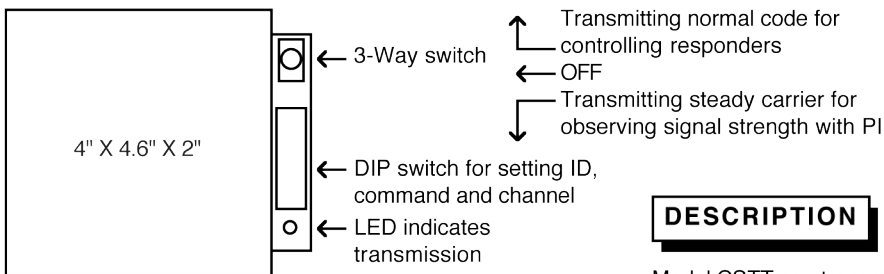
Model PI3 is used, in conjunction with an oscilloscope (not supplied), to look at the PLC signal on the ac wiring. For energy management systems it is connected between energized line and equipment ground by means of supplied clip leads. In Blaster systems it is connected between energized line and neutral. The PI3 allows the PLC signal to pass through but eliminates the 60 Hz component.

Connection to the oscilloscope is between screw terminals Com and RF.

If an oscilloscope is not available then a DC voltage proportional to the RF output voltage at a CTR, CTME or CTM can be measured across screw terminals Com and +V.

The minimum peak-to-peak (P/P) voltage at the Responder for good PLC reception is 30 mV P/P. Typical will be above 50 mV.

## MODEL CSTT TEST TRANSMITTER



### DESCRIPTION

Model CSTT can transmit all commands to all 1,024 Responder IDs (512 on Channel A & 512 on Channel B). Using supplied clip leads connect between ac energized line and equipment ground at Responder, or between terminals K & L of CTME or CTR .

Maximum voltage = 277 Vac (do not use with case C or J of Drawing 2 of Manual A234). Label gives instructions for setting DIP switch. Powered by internal 9-volt NEDA 1604 battery (supplied).