



## CET-2000

### Controlled Energy Capacitive Discharge Cable Fault Locator

■ **Hipotronics CET-2000 Series** Capacitive Discharge Cable Fault Locator is designed to fill the requirement between the highly portable 5250 First Response Fault Locating System and the higher voltage/energy CF70 Series Capacitive Discharge Fault Locators. The CET-2000 combines high discharge voltage with high discharge energy to allow location of a wide variety of cable faults, especially when used with a Hipotronics HV Digital TDR. In addition, the controlled energy capability is quite beneficial for testing of XLPE cable where a lower “thump” voltage but higher energy is best.

The CET-2000 can be used with a high voltage coupler (HVC-4100 Series) and a time domain reflectometer (TDR-1150 or TDR-1170) to quickly provide a specific distance to the fault in feet or meters. This combination of equipment can greatly reduce the amount of high voltage (number of thumps) the cable resulting in reduced damage or degradation to the cable under test. The package is very lightweight and portable for the voltage and energy rating. The standard 5 feet output cable easily connects to a Hipotronics 8100 Cable Reel with a lockable MC connector. A standard MC locking plier termination is included.

Hipotronics Inc. has years of experience in cable fault locating the toughest faults. Our line of cable fault locating equipment is designed and manufactured based upon our field expertise. Whether you use the fault locator alone or with other accessories you've got a powerful tool to help restore power to your customers quicker.



#### FEATURES

- ☑ **Self-Contained Unit** Features Proof Tester, Burner and Thumper in One
- ☑ **Burn Currents** to 160mA @ 8kV
- ☑ **Impulse Energies** of up to 2000 Joules @ 8/16/32kV Capacitive Voltage Discharge
- ☑ **Automatic and Manual** Thumper Mode
- ☑ **Operable** from Line Voltage or Generator
- ☑ **Single HV** Output for All Modes
- ☑ **Zero Start** Interlock
- ☑ **External** Interlock
- ☑ **Hipot Voltage** up to 32kV
- ☑ **Easily Interfaces** to Hipotronics HV TDRs and Couplers

#### BENEFITS

- Test Wide Range of Cable** in a Small Lightweight Package
- Delivers More Energy** at lower voltages
- Easily Interfaces** to Hipotronics and Other Systems
- High Energy Allow Testing** of Long Cable Lengths and Allows Easier Pinpointing of Problem Faults.
- Current Meter Allows** Leakage Measurements on PILC Cables During Hipot Testing or Fault Conditioning (Burning).
- Single Shot Discharge Mode** Allows Minimal Thumps When Using TDR.

#### APPLICATIONS

- Electrical Utilities
- Test Companies
- Petrochemical Facilities
- Facility Maintenance

## TECHNICAL SPECIFICATIONS

### General

Input Voltage:	Suffix - A Suffix - B	120VAC, 60Hz, 2kVA 230VAC, 50/60Hz, 2kVA
Output:	Proof Tester, 0-8/16/32 kV dc Burn Currents, 0-160/80/40mA dc	
Capacitor Discharge:	0-8kV dc @ 48µF 0-16kV dc @ 12µF 0-32kV dc @ 3µF	20 or 30 Pulses/minute Stored Energy 2000J @ 8/16/32kV dc
Metering:	Proof Test Voltage Proof Test Leakage Current Burner Current	0-8/16/32 kV dc ± 2% 0-160 mA ± 2% 0-160 mA Standard Polarity Negative Output.
Thumping Duty Cycle:	1.5 hour On, ½ hour Off 8 times per day	@ max rated output
HV Termination:	Female MC Connector	Output Cable 5ft. (1.5m) pigtail and MC
Storage Temperature:	-4°F to 130°F (-20°C to 55°C)	
Operate Temperature:	10°F to 130°F (-8°C to 55°C)	
Weight and Dimensions	22.5"W x 30"H x 27"D (57 x 76 x 69cm)	300 lb (118 kg) Net 580 lb (228 kg) shipping

### SCOPE OF SUPPLY

- Qty.1 CET-2000 with terminations as described above
- Qty.1 Safety interlock plug
- Qty.1 Operations Manual
- Qty.1 Calibration Certificate

### ORDERING INFORMATION

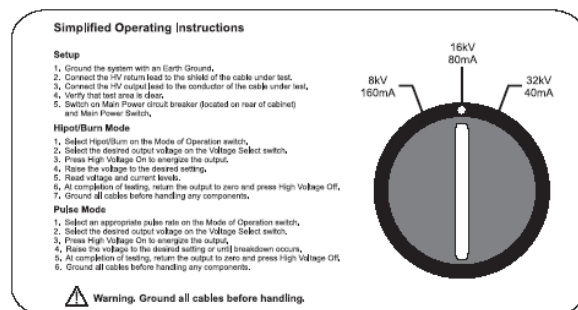
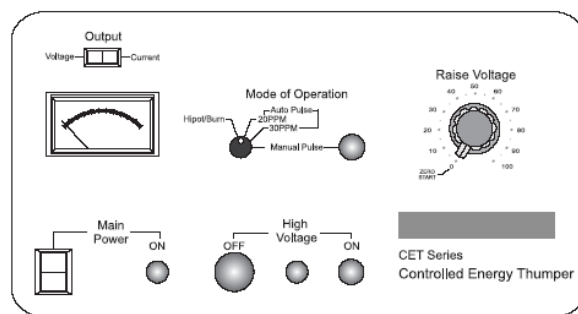
#### System

Cable Fault Locator	<b>CET-2000-A</b>
	<b>CET-2000-B</b>

#### Accessories

Time Domain Reflectometer	<b>TDR1150</b>
	<b>TDR1170</b>
HV Coupler for use with the TDR	<b>HVC4100</b>
Cable Reels	<b>8100</b>

### CONTROL PANEL



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