



CF30-8

30kV High Voltage Cable Fault Locating Power Supply

■ **Hipotronics CF Series** test systems for fault locating of primary cables consist of a dc proof tester, a burner and a capacitive discharge fault locator (thumper). These self-contained, portable units are rugged, reliable and compact making them ideal for field use. The CF30-8 has a continuously adjustable impulse rate from three to thirty seconds. Test ratings are a 30 kV dc proof test voltage, a 50 mA burn current and a 0-15 kV dc capacitive discharge (thumper) voltage.

The units can be used with a high voltage coupler (4100 Series) and a time domain reflectometer (TDR) 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.

For additional pinpointing the HSDAD acoustical detector can be used in conjunction with the CF30-8 to pinpoint the exact underground location. While the CF "thumps" the cable the user "listens" to the thumping using HSDAD and can pinpoint where to start digging to repair the fault.

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

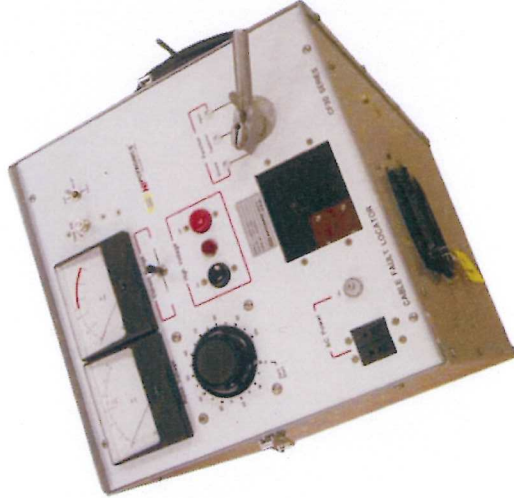
- ☑ **Self-Contained Unit** Features Proof Tester, Burner and Thumper in One
- ☑ Burn Currents to **50 mA**
- ☑ **Internal discharge solenoid**
- ☑ Impulse Energies of up to **900 J**
- ☑ **Automatic and Manual** Thumper Mod
- ☑ **External interlock** provisions
- ☑ Operable from **Line Voltage or Generator**
- ☑ **Single HV Output** for All Modes
- ☑ **Mode Indicator Lights**

BENEFITS

- Accurate Fault Identification and Location**
- One Unit for all URD Cable Maintenance Testing**
- User Safety** - visual verification of grounding status via face panel window
- Repeatable Impulse level**
- Variable Impulse Rate from 3 to 30 Seconds**

APPLICATIONS

- DC Hipot testing of:
- Electric Utilities
 - Test Companies
 - Petrochemical Facilities
 - Facility Maintenance



TECHNICAL SPECIFICATIONS

General

Input Voltage	120 V, 50/60 Hz for -A version 230 V, 50/60 Hz for -B version
Output	30KV dc (continuously variable)
Capacitor Discharge	0 ... 15KV at 8uF
Duty Cycle	Continuous (7 pulses per minute)
Metering	0 ...30KV dc $\pm 2\%$ 0 ...1, 10, 20 mA $\pm 2\%$ 0 ...50 mA
Terminations	10' (3.1m) cable 50' (15.2 m) shielded cable - vice grip term. 10' (3.1m) No. 2 cables with vice grip term.

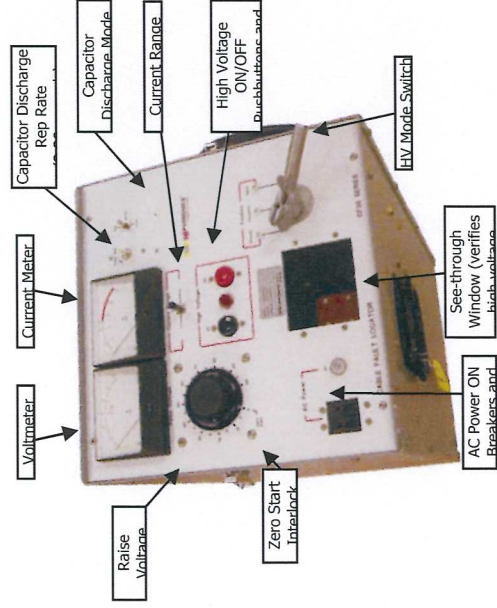
Weights and Dimensions (W x H x D, net weight, ship weight)

CF30-A	16" x 30" x 16" (406mm x 762mm x 406mm)	185lbs.	250lbs.
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SCOPE OF SUPPLY

- Qty. 1 CF30-8 with terminations as described above
 Qty. 1 Interlock Plug (PN800661)
 Qty. 1 Operations Manual
 Qty. 1 Calibration Certificate

CONTROL PANEL



ORDERING INFORMATION

System

Cable Fault Locator	CF30-8-A CF30-8-B
Cable Fault Locator with only 15 feet of return and HV cable and MC type connector for use with HVC coupler and 8100 cable rack	CF30-8-PT-A CF30-8-PT-B

Accessories

Spare parts kit for CF30-8	SPK1-CF30-8
Time Domain Reflectometer	TDR1150
HV Coupler to protect TDR from HV of cable fault locator. TDR1150 must be used with a coupling device.	HVC4100 Series
HV Cable Rack with 125 ft of 70 kV cable and 125 ft of safety ground cable.	8100