



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	Proof Test 30kV dc (continuously variable)	Burner	50 mA
Capacitor Discharge	0 ... 15kV at 8uF	Energy Delivered to Fault	900 J
Duty Cycle	Continuous (7 pulses per minute)		
Metering	Proof Test Voltage	0 ...30kV dc ±2%	
	Proof Test Current	0 ...1, 10, 20 mA ±2%	
	Burner Current	0 ...50 mA	
Terminations	Input Line	10' (3.1m) cable	
	Return to High Voltage	50' (15.2 m) shielded cable - vise grip term.	
	Ground	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

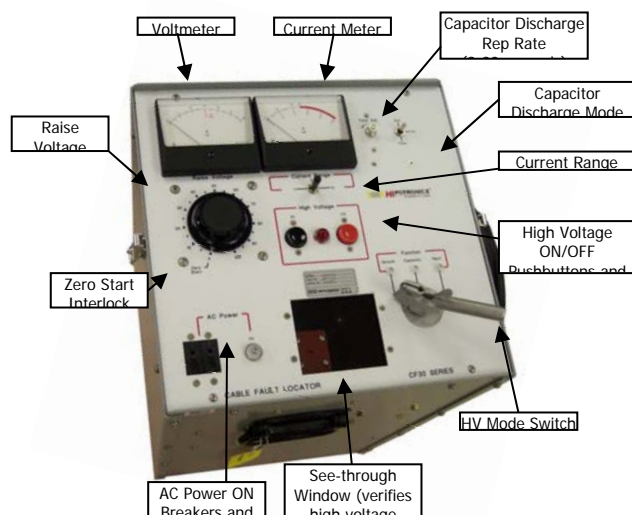
- Qty. 1 CF30-8 with terminations as described above
- Qty. 1 Interlock Plug (PN800661)
- Qty. 1 Operations Manual
- Qty. 1 Calibration Certificate

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

CONTROL PANEL



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

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