

CF30-8

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
- ☑ **Impulse Energies** of up to 900 J
- ☑ **Automatic and Manual** Thumper Mode
- ☑ **Operable** from Line Voltage or Generator
- ☑ **Single HV** Output for All Modes
- ☑ **Zero Start** Interlock
- ☑ **External** Interlock
- ☑ **Mode Indicator** Lights
- ☑ **Electrically Operated** Shorting Solenoids with Mechanical Ground Assurance

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

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

Technical Specifications

General

Power Supply	-A	120 V AC, 60 Hz		
	-B	220 V AC, 50/60 Hz		
Output	Proof Tester	30 kV dc (continuously variable)	Burner	50 mA
Capacitor Discharge		0-15 kV at 8 μ F	Energy Delivered to Fault	900 Joules
Metering	Proof Test Voltage		0-30 kV dc \pm 2%	
	Proof Test Current		0-1, 10, 50 mA \pm 2%	
	Burner Current		0-50 mA	
Duty Cycle	Continuous (7 pulses per minute)			
Terminations	Input Line	10 feet (3.1 m) cable		
	Return and High Voltage	50 feet (15.2 m) shielded cable with vise grip terminations		
	Ground	10 feet (3.1 m) No. 2 welding cable with vise grip terminations		

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

CF30-8	16" x 30" x 16" (406 x 762 x 406 mm)	185 lbs (85 kg)	250 lbs (128 kg)
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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

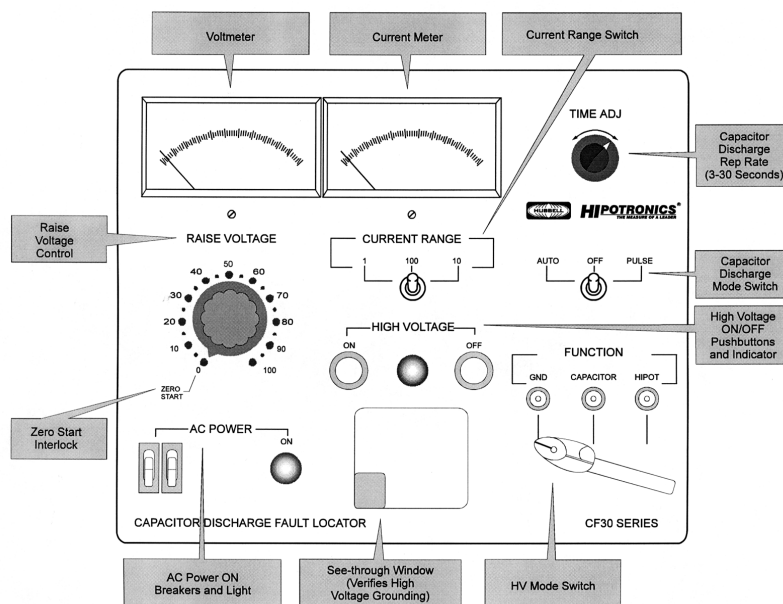
System

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

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
Battery operated acoustical fault detector	HSDAD
Secondary fault locator and cable tracer	HEG3000-T

Control Panel



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