



**HIPOTRONICS**  
THE MEASURE OF A LEADER

## **FEATURES**

- Proof tester, burner, thumper in one self-contained unit
- Burn currents to 100 mA
- Impulse energies of 3750 J to 7500 J
- Automatic and manual thumper mode
- Operable from line voltage or generator
- Single HV output for all modes
- Isolated and shielded return current path
- Zero start interlock
- External interlock
- Face panel window
- Mode indicator lights
- Electrically operated shorting solenoids with mechanical ground assurance
- Internal radar pickup for Model M602TDR

## **BENEFITS**

- Positive fault identification and location
- Isolated return for increased operator safety
- One unit for all URD cable maintenance testing
- Visual ground verification
- Precise impulse repetition
- Variable impulse rate from 3 to 30 seconds

## **DESCRIPTION**

Hipotronics CF Series testing 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. All models feature a continuously adjustable impulse rate from three to thirty seconds.

# **CF70 Series Cable Fault Locators**

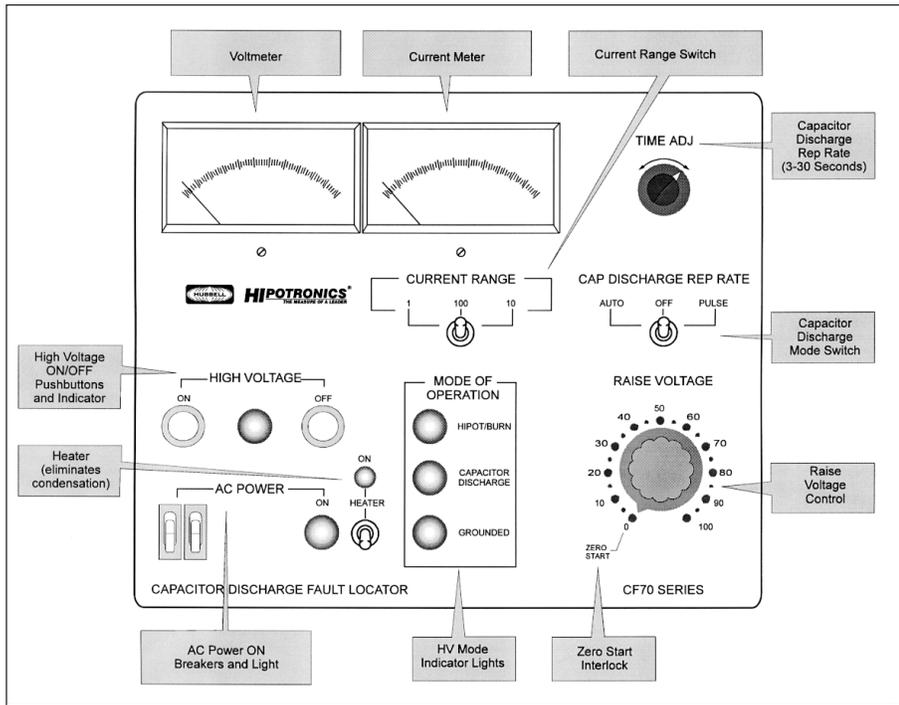


*Model CF70 Cable  
Fault Locator*

## **MODELS CF70-12 AND CF70-24**

- 70 kV dc proof tester
- 100 mA burner
- 0-25 kV dc thumper
- Operates from 120 V ac line or portable generator (220 V ac is available as an option)

Model CF70-12 is a 25 kV, 12 $\mu$ F thumper and the CF70-24 is a 25kV, 24  $\mu$ F thumper. Both units combine a 70 kV dc proof tester, a 100 mA burner and a capacitive discharge fault locator (thumper). Absolute accuracy of the impulse repetition rate is achieved by using a unique, motorized spark gap. Each unit also has an internal radar pickup for the Model M602TDR.



Model CF70  
Panel Detail

## SPECIFICATIONS

<b>INPUT VOLTAGE</b>	Model number suffix - A	120 V/ 60 Hz	
	Model number suffix - B	220 V/ 50/60 Hz	
<b>OUTPUT</b>	CF70 Proof Tester	Continuously variable to 70 kV dc	0 to 60 kV above 5000 ft. altitude
	Burner	100 mA	
<b>MODEL</b>	<b>CAPACITOR DISCHARGE</b>	<b>ENERGY DELIVERED TO FAULT</b>	
<b>CF70-12</b>	0-25 kV at 12 $\mu$ F	3,750 Joules	
<b>CF70-24</b>	0-25 kV at 24 $\mu$ F	7,500 Joules	
<b>METERING</b>	CF70 Proof Test Voltage	0-70 kV dc $\pm$ 2%	
	Proof Test Current	0-1, 10, 100 mA $\pm$ 2%	
	Burner Current	0-100 mA	
<b>DUTY CYCLE</b>	Continuous		
<b>TERMINATIONS</b>	CF70 Input Line	50 ft. (15.2 m) cable	
	Return & High Voltage	100 ft. (30.4 m) double shielded cable	
	Ground	25 ft. (7.6 m) No. 2 welding cable	
<b>MODEL</b>	<b>DIMENSIONS (W x H x D)</b>	<b>NET WEIGHT</b>	<b>SHIP WEIGHT</b>
<b>CF70-12</b>	16" x 36" x 36" (41 x 91 x 91 cm)	540 lb (246 kg)	750 lb (341 kg)
<b>CF70-24</b>	16" x 36" x 50" (41 x 91 x 127 cm)	675 lb (307 kg)	894 lb (352 kg)

## ACCESSORIES

- Spare Parts Kits – Catalog No. SPK1-CF70-12  
Catalog No. SPK1-CF70-24
- Cable Fault Locating Radar

For further information, contact:

### Hipotronics, Inc.

A Subsidiary of Hubbell, Incorporated  
Route 22, P. O. Box 414  
Brewster, NY 10509, U.S.A.  
**1-800-727-4476**  
Tel: 845-279-8091  
Fax: 845-279-2467

NOTE: Because Hipotronics has a policy of continuous product improvement, it reserves the right to change design and specifications without notice.