



# 5250 Series – High Energy Capacitive Discharge (Thumpers)

Portable Cable Fault Locating Systems

■ **The Hipotronics 5250 Systems** meet the demanding needs of utilities, industrials, and contractors who require a highly portable, easy to use, complete fault location system. The 5250 system utilizes the most innovative TDR techniques; along with the highest energy, battery operated, portable compact thumper the market has to offer. These systems will reduce your fault location time by up to 80% allowing quick and easy sectionalizing of faulted loop feed URD installations with out disconnecting transformers and provide fast fault location in underground cables. Isolation of a cable fault between two transformers is easily identified.

Our 5250 battery powered cable fault locator combines a high voltage filter, digital high voltage TDR and battery charger into one complete, easy to use, cost-effective package. Operation of the entire system is done from the controls of the TDR1150, or manually from the 5250 control panel. Connection to the cable under test is easy with quick clamp connectors on an HV output cable. Once the 5250 is connected to the cable under test, a trained operator will be able to find faults in a matter of minutes. The digital TDR1150 allows built-in storage of waveforms. In addition, the 5250 TDR1150 has a built-in serial port to allow an operator to download waveforms to a computer for evaluation or long-term storage.



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## FEATURES

- ☑ **Complete Fault** Location System in a Single Package
- ☑ **Highly Portable** Lightweight Package
- ☑ **Output Energy** up to 2000 Joules @ Either Voltage Range.
- ☑ **User Friendly** Step by Step Operation
- ☑ **100 MHz** TDR Sampling Rate
- ☑ **Saves up to 16** Three Phase **Cable Traces** and **16** User Defined **Test Profiles**
- ☑ **Windows™ -based TDR with RS232 Port** to Download Traces to Computer
- ☑ **Dual Mode Operation** Automatic through the TDR and Manual from 5250
- ☑ **Fully Powered** from AC or 12V Battery (Included)
- ☑ **Waterproof** Interlocked Cabinet

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## BENEFITS

**Single Piece Solution** - the need to buy and maintain several pieces of equipment goes away

**Reduce Damage to Residential Property** - this compact lightweight unit mounted on a hand cart with wheels is ideal for field use anywhere

**Easier Fault Finding** - a fast rise time pulse makes testing of URD cable and locating the fault simpler

**Time Saving** - fault location time and time spent digging up the cable is reduced with the high resolution TDR (2.5 feet)

**Use It Regardless of the Weather** - wholly self-contained and waterproof design, minimizes setup hassles

**Simple Fault Pinpointing** - operators can simply pinpoint faults due to the high energy output of the power supply

## TECHNICAL SPECIFICATIONS

### General

Model Number	<b>5250-30-*</b>	<b>5250-15-*</b>
<b>TDR Specifications</b>		
TDR Operating System	Windows™	
Measuring Accuracy	2.5 feet (77 cm) - sampling rate of 100 MHz	
Pulse Amplitude / Width	25 V into 50 Ohms / 100 nS to 20µs	
Range - Time / Distance	1.28µs to 0.66 mS / 1 to 196,000 feet (0.3 to 59,740 m)	
Trace Storage	Total of 32, 16 cable traces and 16 user test profiles	
Monitor	LCD Display 7" (18 cm) Diagonal	
Input Protection/Isolation	480 volts AC	
<b>HV Section Specifications</b>		
Power Requirements	Sealed gel, 12 V dc rechargeable battery	
	*Input voltages	-A 120 V, 60 Hz -B 220 V, 50/60 Hz
Pulse Output Voltage	0 – 15 kV or 0 - 30 kV	0 – 15 kV
Controlled Energy	2000 J @ 30 kV or 15 kV	1000 J @ 15 kV
Charge Time	10 seconds	10 seconds
DC Proof Test Output	0 – 30 kV	0 – 15 kV

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

5150-30-*	28" x 51" x 22" (71 x 130 x 56 cm)	365 lbs (166 kg)	415 lbs (189 kg)
5150-15-*	28" x 51" x 22" (71 x 130 x 56 cm)	345 lbs (000kg)	395 lbs (000 kg)

## ORDERING INFORMATION

### System

30 kV @ 4.45µF / 15 kV @ 17.8µF max 2000 Joules  
 15 kV @ 8.9µF / 7.5 kV @ 35.5µF max 1000 Joules  
 \* Indicate input voltage -A for 120 V, 60 Hz or -B for 220 V, 50/60 Hz

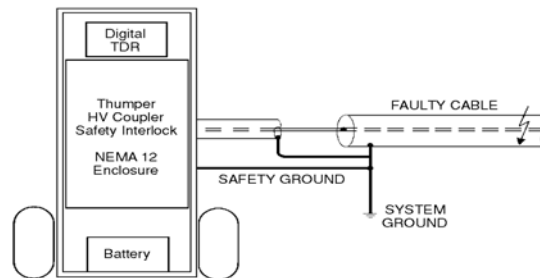
### Accessories

Retrofit kit for MC connector installation on HV cable HH211082  
 Connects TDR to Hagenuk M 219 filter HH210945

## SCOPE OF SUPPLY

- Qty. 1 CFFR-30 or CFFR-15 Hipot/Thumper
- Qty. 1 TDR1150 and Power Supply
- Qty. 1 50 feet HV Cable, MC connector, vise-grip clamp and grounding clamp
- Qty. 1 25 feet Safety ground with grounding clamp
- Qty. 2 Interconnect Cables, BNC to BNC, 3 feet (0.91 m)
- Qty. 1 Wheeled hand cart
- Qty. 1 Internal 12 V rechargeable battery, charger
- Qty. 1 TDR Software
- Qty. 1 Calibration Certificate
- Qty. 1 User's Manual

## CONNECTION DIAGRAM



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