

SPG40-1000

SPG40-2000

“Turn & Click”
The ***“Easy Way”***
to find ***“Difficult Faults”***



Thumper
Burner
Hipot
ARM[®] Locate
Surge Locate
Decay Locate
Meg Ohm Tester
Step Breakdown

 **all in one!**

Menu Controlled
Cable Test and Fault Locating System
for URD & Networks

Technical Specifications Model SPG40-1000 & SPG40-2000

Application and Description

The Model SPG40 Fault Locate & Cable Test System is a completely integrated, menu driven unit for easy operation. It is intended for fault locating & testing of distribution class systems, distribution and subtransmission feeder & submarine cables, substation get-aways *and otherwise hard to find faults in URD systems*. It is suitable for all typical cables types, incl. PILC. The SPG40 design features **switchable, multi-stage surge capacitors for maximum energy availability @ lowest possible surge voltages**. The voltage in each range is continuously adjustable and available in a single or timed surge pulse release. The combination of the SPG40 with a HDW's state of the art T3050 provides 3 powerful fault methods to the operator in order to pre-locate all typical types of cables faults from high to low resistance in a timely and efficient way, incl. high resistance faults in PILC cables (substantial "burn" and "Hipot" capabilities). The SPG40 is the **first system to provide unique safety features**, which ensure proper ground and HV connections and indicate potentially dangerous Step Potential problems found typically in bare concentric circuits.

Technical Specifications

Max. Output Voltage in each range: 12.5/25 or 16/32 kV
Optional additional Capacitors : 4kV or 8kV

Max. Output Energy in each range: 1,000 or 2,000J
(2 or 3 switchable capacitor design)

Individual Pulse or Timed Release: 6–10 seconds

Max. Burn Current @ 8/20kV : 700mA / 100mA

Adjustable DC Hipot Voltage : 0 - 40kV

Adjust. Step Breakdown Voltage : 0 - 40kV

Insulation Test Voltages : 1 or 5 kV

Insulation Resistance Ranges : 100Ω / 1MΩ / 100 MΩ

Energy efficient ARM® Filter : Choke type

ARC Reflection Prelocating up to: 32kV

Surge Pulse Prelocating up to : 32kV

Decay Prelocating up to : 40kV

Surge Pinpointing up to : 32kV

Safety Features:

- Automatic Safety Interlock to indicate **improperly connected Safety Ground and or HV Return Leads**
- Automatic Safety Interlock to indicate existence of **potentially dangerous STEP POTENTIALS**
- **Additional contacts to operate safety devices** like door contacts are available

Power requirement : 120VAC/1.75kVA

Weight w/o cable rack approx. : 250 - 350 Lbs

Size (H x W x D) : 41.5" x 21.5" X 17"

Standard Vehicle Installation : Steel Frame with shock mounts

Optional turn-key van / truck factory or on-site installation services available



Battery / Power Inverter on board power option



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