



# H.V. TEST

Specialists in High Voltage  
Testing & Diagnostics

## HVSG3100-32 32kV Portable fault locating system

Projects

The HVSG1100-32 is a 32kV compact test unit and cable fault location low and medium voltage. The reflectometer has the most modern pre-locating methods TDR (Time Domain Reflection) ICE (Impulse Current) ARC (Arc Reflection Method) and DECAY (Voltage Decay) methods which you can use on any of the 3 ranges (8- 16-32 kV) of the impulse generator shockwave.

Repairs

A peak power of 3048J provides the power required to accurately pin-point cable faults through the acoustic method using the powerful pin-pointer.

The powerful high voltage source allows testing at any voltage level between 0 to 32kV.

Services

Training

Products



### Features:

- Compact and sturdy unit
- Modular configurable
- High energy peak for accurate and effective pinpointing
- Safe and fast location of faults
- It includes several methods of pre-fault location (TDR - ICE-ARC)
- Suitable for medium-small utility

# H.V. TEST

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# HVSG3100-32

## 32kV Portable fault locating system

### TECHNICAL SPECIFICATIONS

#### IRG2100

- Distance range 1000 m to 250 Km @ 80 m/μsec
- Pulse width 150ns to 8μs
- Pulse amplitude 20Vp to 100Vp
- Resolution 1 m @ 80m/ μsec
- Operating frequency 80 Mhz
- Methods TDR, ICE, ARC and DECAF
- Output impedance 50 ohm
- Measurement Movable cursor display
- VP/2 Adjustable between 50 m/μsec - 150m/μsec
- Zoom Yes
- Memory > 1000 reflectograms
- Connections USB2.0 - BNC
- Display 8.4" TFT high contrast colour, 800 x 600 pixels, LED backlight

#### Tone Generator

- Selectable frequencies 10 kHz – 1.48 kHz - 480 Hz
- Output power adjustable from 0 to 100 VA
- Frequency range 0.48 – 1.48 – 10 kHz
- Output impedance Ω 1–2-5  
10-30 - 100  
300 – 1000
- Signal Pulsed rectangular wave Continuous linear
- Measurement LCD graphic display

#### HVSG1000 32kV

- High voltage test 0 – 8kVcc / 0 – 16kVcc / 0 – 32k V DC
- Short Circuit current @ 8kVcc – 240 mA  
@ 16kVcc – 120 mA  
@ 32kVcc – 60 mA
- Peak power per scope @ 8kVcc – 3048J  
@ 16kVcc – 3048J  
@ 32kVcc – 3048J
- Discharge frequency 4 – 6 sec.
- Switch functions Key Yes
- Grounding Automatic
- Filter ARC – ICE – DECAF
- AT Output cable 0 m, high voltage shielded cable – 6mm<sup>2</sup>
- Ground Cable 20 m, 10mm<sup>2</sup> – Indented Cable
- Mains Cable 20 m, 3 x 4mm<sup>2</sup>
- Dimensions mm (h x w x d) Command Module: 1130 x 635 x 735  
Reel Container: 1900 x 830 x 600
- Weight (approximate) 230 kg
- Power supply 220 VAC/50Hz



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### Delivery includes:

- 30 meters cable reel
- Command Module
- Reflectometer
- Audio frequency generator
- Switch Range key (8, 16 or 32 kV)
- Switch functions Key (ARC Filter, Direct and Signal)
- AT Output cable
- Safety ground cable
- Operation ground cable
- Power cord

### Optional:

- 50 meters cable reel
- Trailer or Van Installation

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