



H.V. TEST

Specialists in High Voltage
Testing & Diagnostics

HVIR7000 Portable Reflectometer for MV Cables

Projects

Repairs

Services

Training

Products

The HVIR7000 is a light-weight, portable fault locator for low, medium and high-voltage power cables, which can be applied for the pre-location of all kinds of faults, including open circuit, short circuit, low resistance, high-resistance and flashovers.

With cable faults exhibiting a high resistance, which requires the application of a high voltage surge to break it down, the HVIR7000 is capable of pre-location up to 64km.



Of the operating modes available, ICM is the most cost-effective method of producing a flashover at the fault point using a standard surge generator. Waveform recognition techniques are applied to calculate the fault location automatically, without the need for the operator to manually interpret the waveforms. For flashover faults requiring a high breakdown voltage, the Decay Method can be applied in conjunction with a HV DC source. The cable is charged by the DC source until it breaks down, creating a transient voltage signal which is captured through a capacitive voltage divider and used for fault location analysis

Features:

- Time Domain Reflectometry (TDR)
- Secondary/Multiple Impulse Method, (SIM/MIM/ARC, requires a HV filter)
- Impulse Current Method (ICM)
- Decay and the Voltage Decay Method
- ICM is augmented by an Automatic Impulse Current (AIC) method, in which waveform recognition techniques are applied

H.V. TEST

Telephone: +27 11 782 1010

Email: sales@hvtest.co.za

Website: www.hvtest.co.za

Address: 17 Gaiety Avenue, Robindale, Randburg



HVIR7000

Portable Reflectometer for MV Cables

TECHNICAL SPECIFICATIONS

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- Operating modes: 5
- Measuring range: Up to 64 km
- ICM mode: Automated
- Sampling rate: 200MHz
- Display: Integral back-lit colour touch-screen
- Voltage of transmitting pulse: 30V
- Width of transmitting pulse: 40 ns - 7 μ s
- Velocity of propagation: 90 – 300m/ μ s
- Output impedance: 5 - 87 Ohm
- Measuring range: 20m - 64 km
- Sampling rate: 200MHz (5ns)
- Charging voltage:
 - Input: 110-265V 50/60Hz AC
 - Output: 8.4V, 3A DC
- Operating pressure: 86 – 106 kPa
- Operating temperature: -20 to +55°C
- Storage temperature: -25 to +70 °C
- Ingress protection: IP54: Splash proof and dust protected
- Dimensions: 270 × 250 × 120mm
- Weight: 3 kg
- Relative humidity: 20%-90% RH at 50°C

Included

- Carrying Bag, Current Coupler and Cable, Testing Cable, Charger
- Portable HV ARC Filter (Optional)

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