

Data Sheet



Syscompact 2000 M

The cable fault location system Syscompact 2000 M can be used for fault pre-location at cable systems up to 65 km length. The surge generator can be used in automatic repetitiv load to enable acoustic pin pointing. The combination of IRG 2000 and surge generator SSG 16 provides the detection of low- and high-ohmic as well as intermittent faults.

The Syscompact 2000 M is light weighted and highly transportable and therefore optimal for onsite use. Low dimensions enable easy transportation. All measurement couplings as listed below are fully integrated in the unit.

Mains features:

- light weighted and highly transportable
- 4 fault location methods (measuring couplings fully integrated into the unit)
- up to 16 kV surge and DC voltage (8 kV / 16 kV range)
- output power 1000 joule
- repetitiv pulse mode (up to 20 pulses /min)
- manual and automatic pulse mode
- programmable output voltage
- menu guidance in different languages

H.V. TEST (PTY) LTD

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Cable Fault Location methods:

- Pulse reflection method
- Secondary Impulse Method (SIM)
- Multiple Impulse Method (MIM)
(advanced SIM)
- Differential Secondary Impulse Method
- Impulse Current Method (ICM)

Technical data

TDR output voltage of transmitting pulse	10...60V
Pulse width of transmitting pulse	40ns ... 10 μ s
Voltage withstand	400V AC (50/60 Hz)
Output impedance	10, 20, 30, 50, 80, 100, 150, 250 Ohm
Sensitivity of input divider	0 ... 60 dB
Measuring ranges @ $v/2=80m/\mu s$	0 – 65 km (0 – 213,000 ft)
Accuracy	0.2 %
Sampling rate	200 MHz (5 ns)
Resolution	0,4m
Propagation velocity $v/2$	50-150 μ s
Number of echograms memories	100
IRG 2000 LCD – TFT Colourdisplay	320x240 pix. (121mm x 92mm – 6")
Pulse voltage	1-8kV and 1-16kV
Impact energy	1024 Joule
Pulse output	Single pulse, 10 and 20 pulses/min
DC voltage	0-16kV
Display pulse voltage	Lighted LCD-display 160X80
Power supply for operation and/or charging	110-240V (50/60 Hz)
Operating temperature	-10 ... +50 °C
Storage temperature	-20 ... +60 °C
Languages	de, en, pt, poln, rus
Type of protection IP43	Dropwater- and contaminant protected
Dimensions	490mm x 500mm x 1070mm
Weight	Approx. 90kg

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