

Data Sheet



Syscompact 3000

Syscompact 3000 is a compact designed, fully enclosed cable fault location system for prelocation and pin pointing of high impedance, low impedance and intermittent cable faults of low and medium voltage cables. Easy operation and use of latest fault location methods in combination with efficient instruments enable a rapid and reliable fault location.

The equipment is available with a surge generator SSG 1100, 1500 or 2100. Optionally a SSG 500 could be integrated. The compact design of the equipment enables easy transport and installation into every van with a payload of 300 to 500 kg.

Features:

- Location of low-impedance, high-impedance and intermittent cable faults
- Efficient cable fault pre-location methods
- Pin pointing according to the acoustic method or measurement of acoustic propagation time (with Universal Locator UL and Ground Microphone BM)
- Sheath fault location according to step voltage method (optional with UL and two test probes)
- Easiest handling
- Modular design, easy to extend for cable testing and diagnosis instruments

Measuring methods:

- Pulse Reflection Method (3 phases)
- Secondary Impulse Method (SIM)
- Secondary Impulse Method (SIM DC)
- Multiple Impulse Method (MIM)
(advanced SIM)
- Differential Secondary Impulse Method
- Impulse Current Method (ICM)

Technical data

IRG 3000	
Output voltage of transmitting pulse	20...160V
Pulse width of transmitting pulse	20ns – 1,3 ms
Voltage withstand pulse echo mode	400V AC (50-60 Hz)
Output impedance	12 - 2000 Ohm adjustable
Measuring ranges (at $v / 2 = 80 \text{ m} / \mu\text{s}$)	10 - 1000 km (32,8 – 3280 ft)
Real time sampling rate	200 MHz (5ns)
Resolution	0,1 m (at $v / 2 = 80 \text{ m} / \mu\text{s}$)
Propagation velocity $v/2$	20-150 m/ μs (66-492 ft)
Sensitivity of input divider	- 10 dB ... + 60 dB
Number of echogramme memories	> 100 000
Colour display	TFT 15 "
SSG	
Output voltage	0-8kV / 0-16kV / 0-32 kV
Surge energy	1100, 1500, 2100 J
Pulse output	Single , 10, 20 or 30 Impulse/Min
DC – voltage	0-32kV
Max. DC current	850 mA
System	
Power supply for mains operation	110-240V (50/60 Hz)
Dimensions (W x H x D)	approx. 100 x 1160 x 800
Weight	195 – 295 kg
Operating temperature	-20 ... +50 °C
Storage temperature	-40 ... +60 °C

