Syscompact 2000 M pro
BAUR portable cable fault location system

Compact and multifunctional

↗ Fully integrated proven cable fault pre-location methods

↗ Surge mode for acoustic pin-pointing

↗ Easily transportable

↗ Ideal for locations that are difficult to access

The portable BAUR Syscompact 2000 M pro cable fault location system is used for cable fault location and cable testing in low- and medium-voltage cables up to 65 km length.

The integrated surge voltage generator with two programmable surge voltage ranges and the IRG 2000 time domain reflectometer enable the reliable location of low-resistive, high-resistive and intermittent cable faults. The surge voltage generator has an automatic surge mode with a selectable surge sequence of up to 20 pulses/min. This means the cable fault location system can also be used for acoustic pin-pointing. Thanks to the simple menu navigation and integrated location methods, cable fault location with the Syscompact 2000 M pro is fast, simple and precise.

The Syscompact 2000 M pro is light, convenient and weather-resistant (splash water and dust protection) and thus ideal for mobile use in the field. The carry handle and the large wheels make it convenient to transport without a vehicle.

Functions

- Pre-location methods:
  - TDR Time Domain Reflectometry
  - SIM/MIM Secondary/Multiple Impulse Method
  - ICM Impulse Current Method
- Surge mode for acoustic pin-pointing
  - Two voltage range: 8 and 16 kV
  - Automatic surge mode or manual triggering
  - Rapid surge sequence up to 20 pulses/min
  - Surge energy up to 1,024 J
- DC voltage testing up to 16 kV

Features

- Fault location on low- and medium-voltage cables up to 65 km in length
- Light, compact and transportable
- No special vehicle required for transportation
- Integrated memory for up to 100 measurements
- Overvoltage protection
- Operational earth monitoring
- Easy menu navigation in several languages
- Easy to use thanks to its ergonomic design

Technical data

IRG 2000	
Pulse voltage	10 – 60 V
Pulse width	40 ns – 10 µs
Voltage-proof up to	400 V, 50/60 Hz
Output impedance	10 – 250 Ohm
Input signal gain	0 – 60 dB
Measurement range	0 – 65 km (at v/2 = 80 m/µs)
Accuracy	0.2%
Sampling rate	200 MHz (5 ns)
Resolution	0.4 m (at v/2 = 80 m/µs)
Velocity of propagation (v/2), adjustable	50 – 150 m/µs
Storage capacity	100 measurements
Display	6" LCD, screen resolution 320 x 240 pixels
User interface languages	English, French, German, Dutch, Italian, Polish, Portuguese, Russian, Spanish

Surge voltage generator	
Surge voltage ranges	0 – 8 kV, 0 – 16 kV
Surge energy	1,024 J
Surge sequence	1 – 20 pulses/min, single surge
DC voltage	0 – 16 kV
Display	LCD with background lighting, screen resolution 160 x 80 pixels
User interface languages	English, German, Polish, Portuguese, Russian

System	
Power supply	100 - 240 V, 50/60 Hz
Max. power consumption	1,500 VA
Ambient temperature (operational)	-10°C to +50°C
Storage temperature	-20°C to +60°C
Relative humidity	90%, non-condensing
Degree of protection	IP42
Dimensions (W x H x D)	Approx. 680 x 1,160 x 670 mm (incl. carry handle and wheels)
Weight	Approx. 90 kg
Safety and EMC	CE compliant in accordance with Low Voltage Directive (2014/35/EC), EMC Directive (2014/30/EC)

Standard delivery

- Cable fault location system Syscompact 2000 M pro
- IRG 2000 time domain reflectometer
- TDR connection cable, 1.5 m, with crocodile clips
- Serial cable RS-232
- Battery charger for IRG 2000
- Printer software for IRG 2000 on USB drive
- Protective earthing cable, 10 m, with earthing clamp
- HV connection cable, 10 m, fix mounted
- Mains supply cord, 2.5 m
- GDR 40-250 discharge and earth rod
- User manual