

BAUR Cable fault location system Syscompact 2000 portable



Picture of system with the heavy duty wheels and 19" drawer options

Features

- Impulse reflection method (TDR)
- Secondary/Multiple Impulse Method (SIM/MIM)
- SIM/MIM with DC voltage (SIM/MIM DC)
- Impulse current method (ICM)
- Continuous cable testing from 0 to 32 kV
- High surge energy up to 1100 Joule (optional up to 2100 Joule)
- Easy data transfer to PC
- Compact design
- Acoustic cable fault location with integrated runtime measurement of sound waves and determination of fault location between cable shafts with BAUR audio frequency receiver UL 30 and ground microphone BM 30
- Line location and depth measurement with BAUR audio frequency receiver UL 30, audio frequency generator TG and search rod SP 30
- Cable sheath fault location with BAUR audio frequency receiver UL 30 and accessory set

Portable system for pre-location and pinpointing

- › Fast and reliable
- › Precise, dependable cable fault location
- › High performance high voltage unit
- › Various cable fault location methods integrated

The cable fault location system Syscompact 2000 portable is used for precise location of high-resistance and intermittent faults in low and medium voltage cables.

Technical data

IRG 2000	
Output voltage	10 ... 60 V
Pulse width	40 ns ... 10 µs
Electric strength	400 V AC
Output impedance	10 ... 250 Ω
Measuring range (at $v/2 = 80 \text{ m}/\mu\text{s}$)	0 ... 65 km (TDR, SIM/MIM) 0 ... 260 km (ICM)
Sampling rate	200 MHz (5 ns)
Resolution	0.4 m (at $v/2 = 80 \text{ m}/\mu\text{s}$)
Runtime factor $v/2$	50 ... 150 m/µs (164 ... 492 ft/ µs)
Input signal amplification	0 ... +60 dB
Storage space	100 Reflectogram
Display	TFT display 6", 121 x 92 mm Resolution: 320 x 240 pixels
Weight	1.1 kg

SSG	
Output voltage	0 ... 8 kV / 0 ... 16 kV / 0 ... 32 kV
Surge energy	1100 Joule Option SSG 1500: 1500 Joule Option SSG 2100: 2100 Joule
Impulse sequence	Single impulse, 10, 20 impulses/min Option SSG 1500: 20, 30 impulses/min
DC voltage	0 ... 32 kV
Max. output current (DC)	560 mA Option SSG 1500/2100: 850 mA
General data: Syscompact 2000 portable	
Power supply	220 ... 230 V (50/60 Hz) Option: 110 / 240 V
Weight	approx. 160 kg
Dimensions (W x H x D)	514 x 790 x 700 mm
Ambient temperature	-10 ... +50 °C
Storage temperature	-20 ... +60 °C

Standard delivery includes

- Syscompact 2000 portable incl.
time domain reflectometer IRG 2000
Connection cable with terminals (1.5 m)
Charger for IRG 2000
Software for IRG 2000
Transport case for IRG 2000
Surge voltage generator SSG 1100
System coupling SA 32 for SIM/MIM method
Impulse current coupling SK 1D for impulse current method (ICM)
19" rack for SSG and SA 32
- High voltage connection cable (10 m)
- Carry handles
- User Manual

Options

- Surge voltage generator SSG 1500 (instead of SSG 1100)
- Surge voltage generator SSG 2100 (instead of SSG 1100)
- Conversion kit for mains supply of 240 V for SSG 1100
- Conversion kit for mains supply of 240 V for SSG 1500/2100
- Autotransformer 110/230 V, 1.5 kVA for SSG 1100
- Autotransformer 110/230 V, 3.0 kVA for SSG 1500/2100
- 4 rollers for 19" rack, mounted
- Audio frequency receiver UL 30
- Ground microphone BM 30
- Accessory set for cable sheath fault location (for UL 30)
- Earth and discharge rod
- 2 heavy duty wheels and handle (on the back of the system)
- 19" drawer for IRG 2000

Configuration examples for Syscompact 2000

- Syscompact with the heavy duty wheels and 19" drawer options for IRG 2000 (see Cover picture)
- Syscompact with the 19" drawer option for IRG 2000 (see Picture above)