

Syscompact 2000

BAUR cable fault location system



The figure is illustrative.

Compact and multifunctional

- Fast and reliable
- Precise, dependable cable fault location
- High-performance surge voltage generator
- Integrated proven cable fault pre-location methods

The compact cable fault location system, Syscompact 2000, is used for the pre-location and pin-pointing of faults on low- and medium-voltage cables.

The system can be equipped with different surge voltage generators SSG 1100, SSG 1500* or SSG 2100*. The surge voltage generators have an automatic surge mode, thereby also allowing the Syscompact 2000 to be used for acoustic pin-pointing. Thanks to the simple menu navigation and integrated location methods, cable fault location with the Syscompact 2000 is fast, simple and precise.

Thanks to its compact design, the Syscompact 2000 is easy to transport and is also suitable for installation in any small van with a payload of 300 to 500 kg.

* Options

Functions

- Pre-location methods:
 - TDR time domain reflectometry
 - SIM/MIM secondary/multiple impulse method
 - DC-SIM/MIM secondary/multiple impulse method used in DC mode
 - ICM impulse current method
- Surge mode for acoustic pin-pointing
 - Three voltage range: 8, 16 and 32 kV
 - Automatic surge mode and manual triggering
 - Surge sequence up to 20 pulses/min (optionally up to 30 pulses/min with SSG 1500)
 - Surge energy up to 1 100 J (optionally up to 1 540 J or 2 050 J)
- Step voltage method for the pin-pointing of cable sheath faults (with BAUR UL 30* universal receiver and accessories set*)
- DC voltage testing up to 32 kV

Features

- Precise fault location methods for every type of fault and various cables
- Efficient cable fault pre-location methods
- Easy to operate
- Modular system, easily expandable for cable testing and diagnostics

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)	50 – 150 m/µs, adjustable
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, 0 – 32 kV
Surge energy	1 100 J
	Option SSG 1500 1 540 J
	Option SSG 2100 2 050 J
Surge sequence	10 or 20 pulses/min, single surge
	Option SSG 1500 20 or 30 pulses/min, single surge
DC voltage	0 – 32 kV
Max. output current	DC 560 mA (0 – 8 kV)
	Option SSG 1500/SSG 2100 DC 850 mA (0 – 8 kV)
System	
Power supply	220 – 230 V, 50/60 Hz
	Options <ul style="list-style-type: none"> ▪ 110 – 120 V, 50/60 Hz (with external auto transformer) ▪ 240 V, 50/60 Hz (with conversion kit for mains supply)
Ambient temperature (operational)	-20°C to +50°C
Storage temperature	-40°C to +60°C
Dimensions (W x H x D)	Approx. 935 x 970 x 775 mm (incl. KTG M3 cable drum rack)
Weight	From 195 kg (depending upon equipment)
Degree of protection	IP22
Safety and EMC	CE-compliant in accordance with Low Voltage Directive (2014/35/EU), EMC Directive (2014/30/EU), EN 60068-2-ff Environmental testing

Standard delivery

- BAUR Syscompact 2000 cable fault location system
- IRG 2000 time domain reflectometer
- Mains supply cord for IRG 2000
- Earth cable, 0.5 m, for IRG 2000
- Charger for IRG 2000
- Software for IRG 2000 on USB drive
- TDR connection cable, 1.5 m, with connection clips
- SA 32 SIM/MIM coupling
- SSG 1100 surge voltage generator
- SK 1D inductive coupling for ICM
- 19" rack, height 21 RU (933.45 mm), depth 700 mm, for Syscompact 2000
- 19" drawer for IRG 2000
- KTG M3 cable drum rack with HV connection cable, mains supply cord and earth cable, each 25 m
- CS 2 HV coaxial connection sockets, 40 kV
- GR 40 earth rod
- User manual

Options

- Conversion kit for 240 V mains supply for SSG 1100
- Conversion kit for 240 V mains supply for SSG 1500/SSG 2100
- External auto transformer 110/230 V, 1.5 kVA, for SSG 1100
- External auto transformer 110/230 V, 3.0 kVA, for SSG 1500/SSG 2100
- Surge voltage generator SSG 1500 instead of SSG 1100
- Surge voltage generator SSG 2100 instead of SSG 1100
- KTG M3 cable drum rack with HV connection cable, mains supply cord and earth cable, each 50 m
- BAUR UL 30 universal receiver
- Accessories set for cable sheath fault location with UL 30
- BM 30 ground microphone
- GDR 40-250 discharge and earth rod
- Trolley for Syscompact 2000
- Steel frame with wheels and guide rods for Syscompact 2000
- Steel pallet for Syscompact 2000

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