

Syscompact 2000 portable

BAUR cable fault location system



The figure is illustrative
(version with heavy duty wheels)

Portable system for pre-location and pin-pointing

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

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

The Syscompact 2000 portable is excellently suited to mobile use without the need for permanent installation in a vehicle.

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 portable to be used for acoustic pin-pointing. Thanks to the simple menu navigation and integrated location methods, cable fault location with the Syscompact 2000 portable is fast, simple and precise.

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
- Compact design
- No special vehicle required for transportation
- Integrated memory for up to 100 measurements
- Easy data transfer to PC
- Easy menu navigation in several languages
- Easy to use thanks to its ergonomic design

* Options

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
Measuring range (at $v/2 = 80 \text{ m}/\mu\text{s}$)	
TDR, SIM/MIM	0 – 65 km
ICM	0 – 260 km
Accuracy	0.2%
Sampling rate	200 MHz (5 ns)
Resolution	0.4 m (at $v/2 = 80 \text{ m}/\mu\text{s}$)
Velocity of propagation ($v/2$)	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, 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 isolation transformer) ■ 240 V, 50/60 Hz (with conversion kit for mains supply)
Ambient temperature (operational)	-10°C to +50°C
Storage temperature	-20°C to +60°C
Dimensions (W x H x D)	
with carrying handles (basic version)	Approx. 745 x 815 x 750 mm
with heavy duty wheels	Approx. 775 x 1 185 x 935 mm
Weight	From 140 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 and options

BAUR Syscompact 2000 portable cable fault location system	With carrying handles (basic version)	Version with heavy duty wheels
IRG 2000 time domain reflectometer, incl.: ▪ TDR connection cable 1.5 m (with connection clips), earth cable 0.5 m and mains supply cord ▪ Software for IRG 2000 on USB drive ▪ Charger	✓	✓
Transport case for IRG 2000	✓	–
SA 32 SIM/MIM coupling	✓	✓
SSG 1100 surge voltage generator	✓	✓
SK 1D inductive coupling for ICM	✓	✓
19" drawer for IRG 2000	Option incl. 19" rack, height 21 RU (933.45 mm), depth 700 mm	✓
19" rack for Syscompact 2000 portable	✓ Height 17 RU (755.65 mm), depth 700 mm	✓ Height 21 RU (933.45 mm), depth 700 mm
1 pair carrying handles for 19" rack	✓	–
2 heavy duty wheels Ø 400 mm and handle	Option	✓
Set of 4 wheels for 19" rack, mounted	Option	–
HV connection cable, 10 m	✓	✓
Earth cable, 10 m, with earth terminal	✓	✓
Mains supply cord, 10 m	✓	✓
GR 40 earth rod	✓	✓
GDR 40-250 discharge and earth rod	Option	Option
User manual	✓	✓
Conversion kit for 240 V mains supply for SSG 1100	Option	Option
Conversion kit for 240 V mains supply for SSG 1500/SSG 2100	Option	Option
External auto transformer 110/230 V, 1.5 kVA, for SSG 1100	Option	Option
External auto transformer 110/230 V, 3.0 kVA, for SSG 1500/SSG 2100	Option	Option
External auto transformer 127/230 V, 3.0 kVA, for SSG 1500/SSG 2100	Option	Option
Surge voltage generator SSG 1500 instead of SSG 1100	Option	Option
Surge voltage generator SSG 2100 instead of SSG 1100	Option	Option
BAUR UL 30 universal receiver	Option	Option
Accessories set for cable sheath fault location with UL 30	Option	Option
BM 30 ground microphone	Option	Option