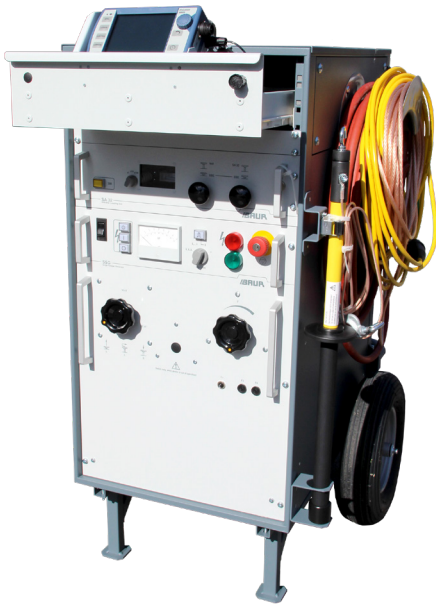# Syscompact 2000 portable

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.

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* 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 protrac® pin-pointing system*)
- 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

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 m/µs)	
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 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	▪ 110 – 120 V, 50/60 Hz (with external auto 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

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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 unit	✓	✓
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
protrac® pin-pointing system / "Acoustics" set	Option	Option
HV connection cable, 25 m, with HV coaxial connection socket	–	Option
HV connection cable, 50 m, with HV coaxial connection socket	–	Option