

## BAUR Cable fault location system Syscompact 2000 portable



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

### 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.

#### 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

## Technical data

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

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

### Standard delivery includes

- Syscompact 2000 portable incl.  
Echometer 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)