

Data Sheet



Surge and Test Generator STG 600 / 1000

The Surge and Test Generator STG 600 is a multifunctional cable fault locating set especially designed for low voltage networks. The Surge and Test Generator is used for cable testing and for pin-pointing of high-resistance and intermittent faults in low voltage cables.

On request, a SIM coupling filter can be integrated into the STG 600 enabling the use of the high sophisticated and efficient pre-locating method: the **Secondary Impulse Method** (SIM-MIM).

The multifunctional STG 600 replaces the following functions of individual instruments:

- **DC cable test set** by menu CABLE TESTING
- **Low voltage surge generator** by menu SURGE MODE
- **SIM coupling filter** by menu SIM (option)
- **Cable sheath fault location test set** by menu SHEATH FAULT LOCATION

Features:

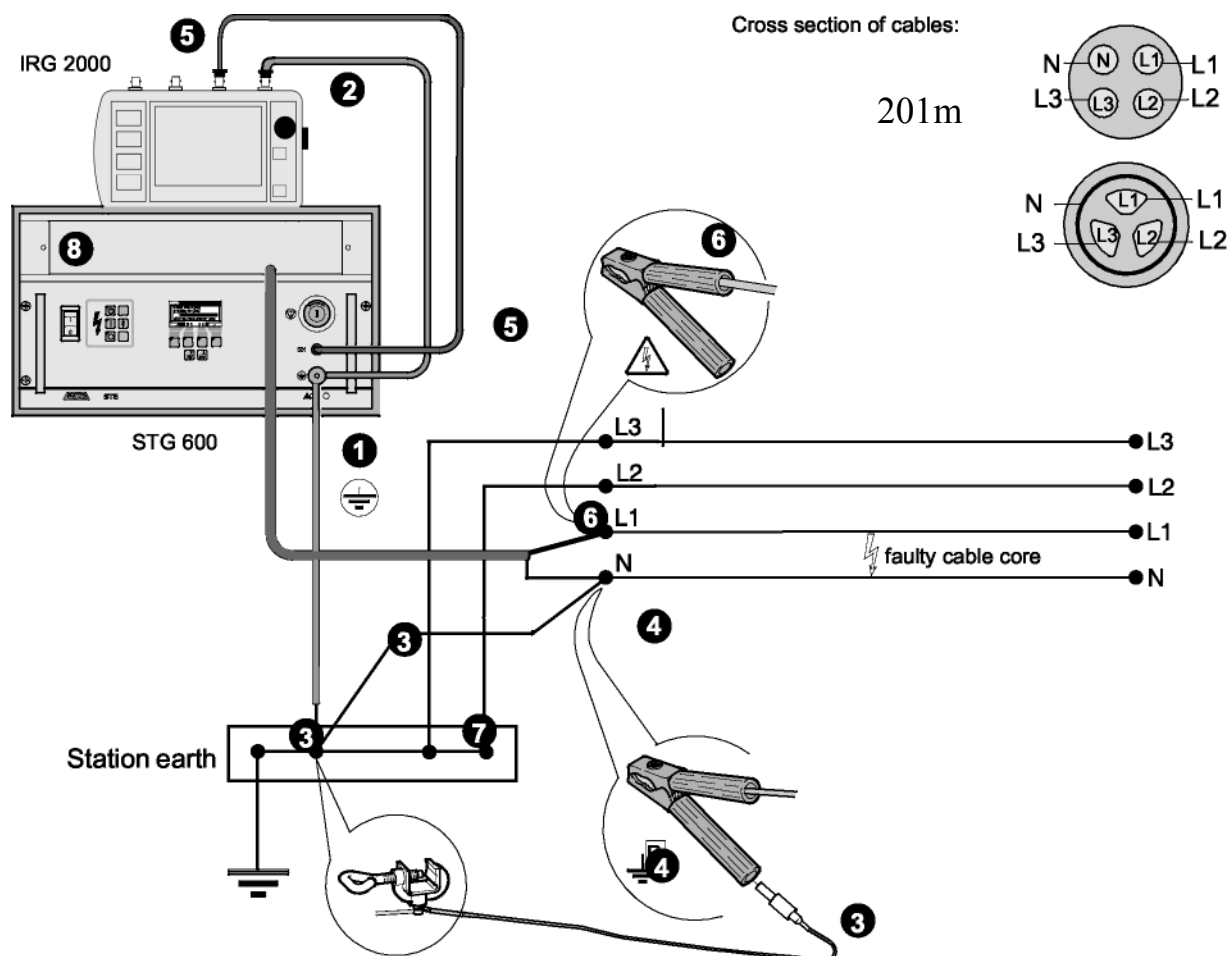
- optimized unique fault location system for low voltage networks
- low weight, portable
- high surge energy 600 Ws (optional 1000 Ws)
- output voltage adjustable in 0.1 kV steps

- easy operation and self-explaining menu guiding
- automatic menu operated HV-switch
- backlit graphics LC display
- identification and display of short-circuit and breakdown faults in DC test mode
- integrated cable compartment
- protective cover for control panel
- designed for highest safety
- EMERGENCY OFF push-button, lockable
- 2 separated discharge devices for cable and internal surge capacitor
- integrated coupling filter for SIM-MIM application (option)
- return voltage protected high voltage output (option)
- insulation resistance measurement (option)

Connection and Operation

highest safety and very user-friendly

After connecting the STG to the test object all required settings can be performed on the control panel.



Technical Data

	STG 600
Display Selectable languages	backlit, 160 x 80 dot-matrix, LCD (graphics) German, English, French, Dutch, Spanish, Italian other languages on request
Cable Testing Output voltage Max. output current Adjustable timer	0.2 - 5 kV DC (neg.) 300 mA (neg.) 0.5 - 60 min or continuous operation
Identification of short-circuit and breakdown	
Surge Mode Output voltage Max. surge energy Surge sequence	0.2 - 4 kV DC (neg.) 600 Ws (1000 Ws) 20 pulses / min or adjustable setting from 1 - 30 pulses/min; (1 – 20 pulses / min with option 1000 Ws) additionally single pulse or DC output selectable
Sheath Fault Location Output voltage Max. output current Pulse coding for Sheath Fault Location Adjustable timer	0.2 - 5 kV DC (neg.) 700 mA (neg.) 5 pulse code programs selectable 0.5 - 60 min or continuous operation
Option: SIM (Secondary Impulse Method)	HV coupling filter for Echometer IRG 2000, IRG 3000
Option: Insulation resistance measurement	0,1 k OHM ÷ > 100 M OHM
Option: Return voltage protected high voltage output	return voltage protected 0 - 400 V AC in all operating modes
Power supply Power consumption	220 V - 240 V, 110 - 120 V with external autotransformer, 50 Hz - 60 Hz max. 800 VA (with option 1000 Ws max. 1200 VA)
Operating conditions: Relative humidity Ambient temperature	≤ 85 %, non-condensing Operation: 0 ° C... + 50 ° C Storage: - 20 ° C... + 60 ° C
Dimensions Weight Length of HV-test lead	19", 6 U, 680 mm depth approx. 44 kg 5 m
Designed and built acc. to following standards CE conform	Low voltage directive 73 / 23 / EWG, EN 61010 - 1, VDE 0104; EMC directive 89 / 336 / EWG with modification 91 / 263 / EWG, 92 / 31 / EWG VDE 0843 part 2, IEC 801-2 / VDE 0843 part 4, IEC 801-4, VDE 0875 part 11, EN 55 011

Surge and Test Generator STG 600

Delivery includes:

- Surge and test generator STG 600 without accessories
- Separation transformer 230 V, 1.2 kVA
- Ground line with ground terminal and N connection line (4 m)
- Protection cover for front panel
- Mains cable (2,5 m)
- User manual

Options:

- Surge Energy 1000 Ws instead of 600 Ws for STG 600
- SIM/MIM HV-coupling filter (in combination with IRG 2000)
- Fixing device for quick fastening of IRG 2000 to STG 600
- Insulation resistance measurement system
- Return voltage proof high voltage output (0–400 V)

For complete fault location systems, test van installations and special accessories please contact your local BAUR representative.

