

## STG 600

### BAUR surge and test generator



### Compact system with many functions

- Specifically for use in low-voltage networks
- Single system for cable testing and fault location
- High surge energy: 600 or 1000 J\*
- Light, compact and transportable

The STG 600 surge and test generator is used for cable testing as well as for precise pin-pointing of faults of all types in low voltage cables.

The optional SIM/MIM coupling filter and the IRG 2000 time domain reflectometer make the most effective pre-location methods SIM/MIM (Secondary/multiple impulse method) and time domain reflectometer available. This allows the precise location of both high-resistive and low-resistive cable faults.

Thanks to the intuitive operation and operator-friendly menu navigation, cable fault location with the STG 600 is quick and easy.

#### Functions

- Cable testing with DC voltage
- Acoustic pin-pointing
- Step voltage method for pin-pointing cable sheath faults
- Insulation resistance measurement\*
- SIM/MIM Secondary/multiple impulse method\*

#### Features

- Output voltage in adjustable 0.1-kV steps
- Automatic short-circuit and breakdown detection in test mode
- Comprehensive safety concept in accordance with the latest standards
- Two separate discharge units for cable and internal surge capacitor
- Voltage-proof up to AC 400 V\*
- Simple operation and self-explanatory menu navigation in several languages
- Switch between operation functions at the press of a button
- Built-in cable compartment
- Protective cover for the control panel

\*Option

## Technical data

### Cable testing

DC voltage (negative)	0.2 – 5 kV
Max. output current (negative)	300 mA
Test time	0.5 min – 60 min or continuous operation

### Acoustic pin-pointing

DC voltage (negative)	0.2 – 4 kV
Max. surge energy	600 J
Option	1000 J (see the section "Options")
Surge sequence	1 - 30 pulses/min, single surge Standard setting: 20 pulses

### Step voltage method (sheath fault location)

DC voltage (negative)	0.2 – 5 kV
Max. output current (negative)	700 mA
Pulse rate	5 selectable programmes
Measuring time	0.5 min – 60 min or continuous operation

### Options

Increase in surge energy:	
Surge energy	1000 J
Surge sequence	1 – 20 pulses/min, single surge
Max. power consumption	1200 VA
Insulation resistance measurement	0.1 kOhm – 100 MOhm
Voltage-proof	up to 400 V, 50/60 Hz in all operating modes

### General

Display	Colour-LCD, screen resolution 160 x 80 pixels
User interface languages	Dutch, English, French, German, Italian, Spanish
Power supply	200 – 260 V, 50/60 Hz
Option	100 – 130 V, 50/60 Hz (with isolation transformer)
Max. power consumption	800 VA
Relative humidity	≤ 85%, non-condensing
Ambient temperature (operational)	0 °C to +50 °C
Storage temperature	-20°C to +60°C
Dimensions (W x H x D)	Approx. 483 x 267 x 680 mm
Weight	Approx. 44 kg
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

- STG 600 surge and test generator, incl. HV connection cable, 5 m
- Isolation transformer 230 V; 1.2 kVA
- Earth cable, 4 m, with earthing terminal and operational earthing
- Protective cover for front plate
- Mains supply cord 2.5 m
- User manual

## Options

- Increase in surge energy to 1000 J (instead of 600 J)
- IRG 2000 time domain reflectometer
- SIM/MIM coupling filter (only in combination with the IRG 2000)
- Fixing device for fastening of IRG 2000 to STG 600
- Insulation resistance measurement for the STG 600
- Reverse voltage protected HV output (AC 0 – 400 V)
- Isolation transformer 115/230 V; 1.2 kVA