STEP & TOUCH TESTING KIT

STS family accessory for step and touch test

- Optional Step and Touch testing kit for STS 5000 and STS 4000
- The kit is made of:
  - STLG- line and grid module
  - STSG - safety grounding module
  - Ground grid test accessories

The option allows performing the measurement of: soil resistivity, ground grid resistance, step and touch tests

STSG protects the operator against possible high voltage spikes

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The Step and Touch testing kit is made of:
- STLG - line and grid module
- STSG - safety grounding module
- Ground grid test accessories kit.

STLG line and grid module

The option allows performing both the measurement of: soil resistivity, ground grid resistance, step and touch tests, and of: overhead lines zero sequence and mutual coupling coefficients. This option applies to STS 5000 and 4000 models. Unless for soil resistivity, for these tests the device is connected to an out-of-service overhead line. Tests are performed with AC current; so, the total impedance is too high for the STS current or voltage generators. STLG is a high power transformer, which increases the output current. A high current switch allows selecting the desired current range. A voltage meter displays the generated voltage. The option takes its power from the EXT. BOOSTER connector of STS. Output current and voltage are metered and sent back to STS measuring inputs; a third output allows STS to know the selected range.

Device characteristics are the followings.
- Input: from STS 5000, via the booster connector.
- Output current ranges: 10, 20, 50, 100 A AC.
- Output power: 1800 VA steady; 5200 VA peak for 10 s.
- High current range selector switch.
- Analogue output voltage meter. Meter range: 600 V AC.

STSG safety grounding module

During tests, STLG is connected to the overhead line to connect to the remote ground. The purpose of the STSG optional device is to protect the operator against possible high voltage spikes. STSG incorporates three voltage suppressors and one high current switch, to connect three lines in parallel. This option applies to STS 5000 and 4000 models, in conjunction with STLG. Option characteristics:
- Nominal AC spark-over voltage: 1000 V rms
- Impulse spark-over voltage: 2000 V peak
- Short-circuit proof with 25 kAeff / 100 ms; 36 kAeff / 75 ms
- Connection via three cylindrical ball studs 16, 20 or 25 mm diameter. The ball diameter must be specified at order.
- Metal aluminum box with handle
- Weight: 9.1 kg
- Dimensions: 41 x 21 x 13.5 cm
- Grounding cable, included: 95sq.mm, 2m.

Ground grid test accessories kit

This option applies to STS 5000 and 4000 models. The option is the kit of connection cables, auxiliary spikes and other accessories that allows connecting STS or STLG to the testing devices and performing all types of tests. The kit includes:
- Four earth spikes for the soil resistivity test and for the earth resistance test.
- Two auxiliary earth spikes, for tests in small sites.
The document is subject to change without notice. Always refer to our technical specification for more detailed information and as formal contract document.