Arc Discharge Generator ADG-500

Arc Discharge Generator ADG-500 is a 10kV/500J Surge generator with built-in ARM (aka SIM/MIM) and ICM (aka WAVE) fault location modes.

Surge generator and cable fault Pre-location in one compact and light weight device.

Significantly expands your ability of cable fault location of high-resistance defects which are not localize with low-voltage TDR method.

Supported measurement methods

Device provides the necessary conditions for the application of these modern non-destructive (without burning the insulation) search techniques of high resistance faults on power cables:

- **Acoustic fault pinpointing** (Surge mode) with AR-027EM cable fault locator (ground mic.)
- **Arc Reflection Method** (ARM mode) with TDR RI-407, TDR-107, TDR-109
- **Impulse Current Method** (ICM mode) with TDR RI-407, TDR-109

Features

- Pinpointing and Pre-location HV-generator combined in one unit;
- Small size – device is free fits into a car trunk;
- Light weight – 15 kg

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Technical characteristics

Supported fault location methods	- Acoustic fault pinpointing method (AU mode) – Surge - Arc Reflection Method (AR mode) – ARM/SIM/MIM - Impulse Current Method (WAVE mode) - ICM
Output voltage range	0 … 10 kV
Output voltage adjustment levels	2 kV…10 kV (smooth adjustment)
Charge modes (for ARM/ICM)	✓ Direct charge of the cable (AUTO), for leakage current <10 mA ✓ Charge the built-in capacitor (MANUAL), for leakage current >10 mA
Embedded storage capacitors	10 μF / 10kV
Maximum stored energy	500 J
Arc stabilization time	1 ms … 10 ms (depends on external conditions)
Maximum allowable pulse voltage on all low-voltage connectors, designed for connection to the TDR	▪ on the TDR connector: 60 V; ▪ on the WAVE connector: 120 V; ▪ on the TRIG connector: 20 V
Power supply	AC 220V
Operating temperature range	from -20 ° C to +40 ° C
Dimensions	520x320x300 mm
Weight	15 kg

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