

# LMP-10

## Step Voltage System



(Step Voltage Generator)



(Step Voltage Pin-pointer)

- » Three pinpointing modes: **step-voltage pinpointing mode** (indicate the fault point directly and quickly find the fault point), **fault current pinpointing mode** (quickly find the fault point by measurement the resistance current in the fault cable), **HV rod pinpointing mode** (measure the DC voltage in the fault cable to find the fault point).
- » High sensitivity and wide response range.
- » Digital signal processing technology, direct display signal waveform, strong anti-interference ability.
- » Automatic zero adjustment, counteract the effect of ground potential change.
- » Overcome the HV bridge disadvantage that cannot locate because lack of good insulation sheath on site.
- » Built-in HV continuous current. Output voltage and current is continuously adjustable and period optional.
- » Built-in large capacity lithium-ion battery pack, under voltage or long time no operation automatic shutdown.
- » Solid case, light weight and portable.

## DESCRIPTION

The Step Voltage Generator is designed to provide step voltage pulsed signal for pinpointing earthed cable faults, sheath faults. Its works as a signal transmitter and can match with Step Voltage Pin-pointer to do earthed cable faults pinpointing.

Step Voltage Pin-pointer is designed an intelligent device integrated with computer technology, digital signal processing technology and with innovative features, high-performance.

It is mainly used for underground power cable (especially the single core high voltage cable) metal sheath grounding fault accurately pinpointing, also can be used in the auxiliary pinpointing of core grounding fault (in the case of sheath have been destroyed).

## TECHNICAL SPECIFICATIONS

### Step Voltage Generator

Open circuit voltage	0...2800 V effective value of fundamental wave
Pulsating DC	peak 8 kV, amount to 10 kV phase voltage peak
Short circuit DC	0...35 mA effective value of fundamental wave
Pulsating DC peak	100 mA
Output frequency	1 Hz

### Step Voltage Pin-pointer

Pinpointing mode	Step-voltage	Fault current	HV rod
Display	Signal waveform, fault point direction	Signal waveform, fault point direction	DC voltage
Max. input range	$\pm 300$ V	$\pm 1$ A	$\pm 10$ kV
Max. sensitivity	0.1 mV	1 mA	1 V (0.1 – 1 kV) 10 V (1 – 10 kV)
Accuracy	1 % $\pm$ 0.1 mV	1 % $\pm$ 1 mA	<1 % (0.1 – 10 kV)
Accessory	Step voltage probe	Current sensor	Step voltage rod

### General

Power supply	220 V AC, 50 Hz, 900 W (Step Voltage Generator) Lithium battery, 3.7 V, 6.8 Ah (Step Voltage Pin-pointer)
Dimensions (LxWxH)	417x234x318 mm (Step Voltage Generator) 220x125x55 mm (Step Voltage Pin-pointer)
Weight	16.8 kg (Step Voltage Generator) 0.9 kg (Step Voltage Pin-pointer)