

REFLECTOMETER HIGH VOLTAGE OSCILLOGRAPHIC «ISKRA-3»



Reflectometer high-voltage oscillographic «ISKRA-3» is intended for definition of distance to the damaged place of communications and power supply cables.

The device allows:

- To find out and to define distance to the damaged place or heterogeneity by location (reflectometric) method on symmetrical and nonsymmetrical cables;
- To measure cable length (including on the drums and in the hank) or distance to the break or short circuit places;

- To memorize, store and process measuring data;
- Consisting of ETL to define the distance to the damaged place in cables with length up to 12 km under all types of damages without prior insulation total burning.

The instrument can to store in build-in permanent memory 4 measurement sets (each consists of 15 reflectograms), and also to transmit and to store data in the PC for next analysis and calculation. (This function is realized on individual demand of Client).

Reflectometer is intended for indoor operation (in ETL in particular) under next operating conditions:

- A range of temperatures of air: from - 10°C up to +40°C;
- Relative humidity of air at the temperature 25°C: up to 80%;
- Atmospheric pressure, mm mercury: 650 – 800.

SPECIFICATIONS:

Maximum measuring distance to the fault location, km	12,3
Minimum distance to the fault location, m	3
Measuring discontinuity, m	0,2
High voltage monitoring pulses parameters on the load 30 Ом: amplitude, kV acceleration time, μs pulse duration, μs	3 - 25 No more, than 0,15 No less, than 2
Low voltage monitoring pulses parameters on the load 30 Ом: amplitude, V acceleration time, μs pulse duration, μs	No less, than 5 No more, than 0,05 1
Weight of reflectometer with sensors and cables, kg	3,8
Active time, hour	No less, than 8
Mean lifetime, year	No less, than 5