

Safety and Interlock Equipment



**THE ADVANCED SOLUTION
FOR HV TESTING**

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Safety and Interlock Equipment

Interlock Equipment

The equipment is intended to be used to secure endangered areas during short time high voltage testing in locations without public access as e.g.

- C-tanδ measurement and potential tests on hydro-generators in power plants
- GIS, switchgear, instrument transformer or cable testing in substations
- Transformer testing in type test laboratories

It can only be used with test sets providing a warning lamp signal and a safety interlock contact.

Available are:

Cordon Stakes

Red and white stakes including:

- top mounted red/green warning lamp
- 2 eyes for suspending of safety circuit chains
- junction box with plug and socket for contacting of the warning lamp and the electrical safety circuit
- emergency pushbutton
- removable and stable base
- short circuit plug

Weight 18 kg
Height 1150 mm

Safety Circuit Chains

5m long red and white chains with integrated cable, used to energise the warning lamps and for the electrical safety loop. The cable ends are equipped with plugs and sockets matching to the cordon stake junction box.

Benefits

- For an easy and space saving transportation and storage, the base can be removed without any tool
- Adapted system; the circuit can be extended as far as necessary
- Two circuit safety interlock and red/green warning lamps wiring in one cable; if the warning lamps are not plugged, the safety loop is interrupted too.
- Suitable for outdoor use at fine weather conditions
- approved and stable design

Options

The standard version is designed for 24V DC and will be delivered with continuous lighting warning lamps.

Optional available are:

- flashlamps
- 230V AC
- warning plate, fixed on the chains



Fences

For a more reliable securing of the test area, fences with an integrated safety interlock and mounted warning lamps can be delivered. They are equipped with castors and grounding connections for easy use in a test laboratory.

Warning Lamps

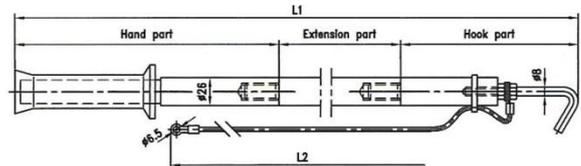
Warning lamps with magnetical sockets or for fix installation can be delivered.

Safety Equipment

To ensure a safe grounding and discharging of high voltage test circuits after testing.

Grounding Rod

Modular grounding rod, especially designed for the requirements of on-site testing. The length of the rod can be adapted to the actual test voltage and –purpose.



Typ	U _n kV	Ext. parts	L1 mm	L2 m
0	10	0	385	2
1	25	1	785	3
2	50	2	1185	5
3	100	3	1585	7
4	150	4	1985	10

Grounding Switch

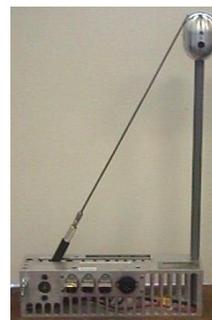
Magnetical operated switch for automatic grounding of a test set after use. They are delivered with 24V DC magnets and with end-position switch. The length of the rod is adjustable.



Three different types are available:
Type A: for <25kV AC and top mounting
Type B: for <200kV and top or wall mounting
Type C: for <50kV AC and with base for standing alone

Discharge Switch

The switch includes a discharge and a measuring resistor. A control unit observes the DC voltage and keeps the warning lamps illuminated as long as the test object is charged.



Control unit and 70kV discharge switch

Grounding Cables and Clamps

For temporary but reliable grounding of test objects in low power testing circuits.

