

GDR

BAUR Discharge and earth rod



The figure is illustrative.

Compact and multifunctional

- Discharge and earthing with a device
- In compliance with EN 61219 and EN 61243-2*
- Best possible protection for the operator

Features

- Design and earthing connection according to EN 61243-2 for the best possible protection for the operator
- Safety requirements for the insulated handle in compliance with EN 61219
- Insulation distances from handle section to protective earthing connection according to EN 61010-1
- Developed according to the recommendations of the VDE and TÜV Süd
- Equipment
 - A G-clamp
 - Earth cable, 4 mm², 3 m

The BAUR GDR discharge and earth rods are used for discharging and earthing cables before and after cable tests or measurements for cable fault location and are adapted to the maximum permissible test object capacitance and the maximum DC voltage of the individual high-voltage devices.

Description	Max. voltage (DC)	Discharge resistance	Discharge energy	Length	Weight (net)	Item No.
GDR 20-125 discharge and earth rod	20 kV	125 kOhm	3,000 J	Approx. 916 mm	Approx. 1.5 kg	411-558
GDR 40-250 discharge and earth rod	40 kV	250 kOhm	6,000 J	Approx. 1,201 mm	Approx. 1.9 kg	411-559
GDR 40-136 discharge and earth rod	40 kV	136 kOhm	6,000 J	Approx. 1,201 mm	Approx. 1.9 kg	411-565
GDR 60-204 discharge and earth rod	60 kV	204 kOhm	9,000 J	Approx. 1,486 mm	Approx. 2.1 kg	411-566
GDR 60-375 discharge and earth rod	60 kV	375 kOhm	9,000 J	Approx. 1,486 mm	Approx. 2.1 kg	411-560
GDR 80-272 discharge and earth rod	80 kV	272 kOhm	12,000 J	Approx. 1,789 mm	Approx. 2.3 kg	411-567
GDR 80-500 discharge and earth rod	80 kV	500 kOhm	12,000 J	Approx. 1,789 mm	Approx. 2.3 kg	411-561
GDR 120-750 discharge and earth rod	120 kV	750 kOhm	18,000 J	Approx. 2,477 mm	2.8 kg	411-562
GDR 160-1000 discharge and earth rod	160 kV	1,000 kOhm	24,000 J	Approx. 3,065 mm	3.3 kg	411-563
GDR 260-1750 discharge and earth rod	260 kV	1,750 kOhm	42,000 J	Approx. 4,951 mm	4.8 kg	411-564

* EN 61219 Live working – Earthing or earthing and short-circuiting equipment using lances as a short-circuiting device. Lance earthing
EN 61243-2 Live working - Voltage detectors - Part 2: Resistive type to be used for AC voltages of 1 kV to 36 kV.

Assembly and disassembly



⚠ DANGER

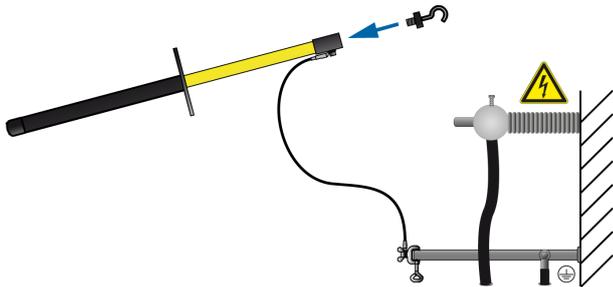
Dangerous voltage in test object.

Danger to life or risk of injury due to electric shock or electric arcs

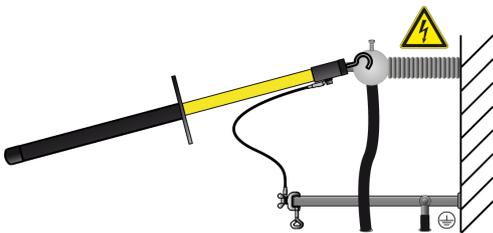
- » **Before touching, discharge, earth and short-circuit:** Test object at the connection point and at the far end.
- » You may touch the plant parts that were under voltage only if they are visibly earthed and short-circuited.
- » Connect the discharge and earth rod correctly to the station earth.
- » Only use the discharge and earth rod if its surface is clean and dry.
- » Hold the discharge and earth rod only at the handles!
- » Keep a distance of at least 50 cm from the protective earthing cable of the discharge and earth rod.
- » Observe the minimum discharge period in accordance with the capacitance of the test object.

For use as an earth rod

1. Connect the protective earthing cable of the discharge and earth rod to the station earth.
2. Assemble the earth rod: Screw the hook into the handle.



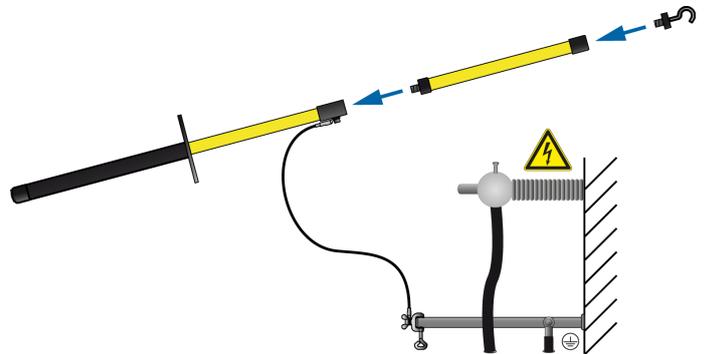
3. Contact the test object with the tip of the earth rod.



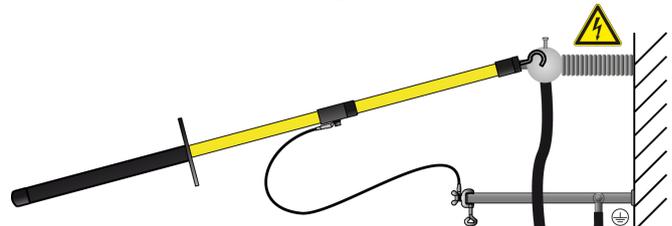
4. Immediately after earthing, connect the earthing and short-circuit equipment to the test object.

For use as a discharge rod

1. Connect the protective earthing cable of the discharge and earth rod to the station earth.
2. Assemble the discharge rod:
 - a. Screw the hook onto the discharge part.
 - b. Screw the discharge part onto the handle.

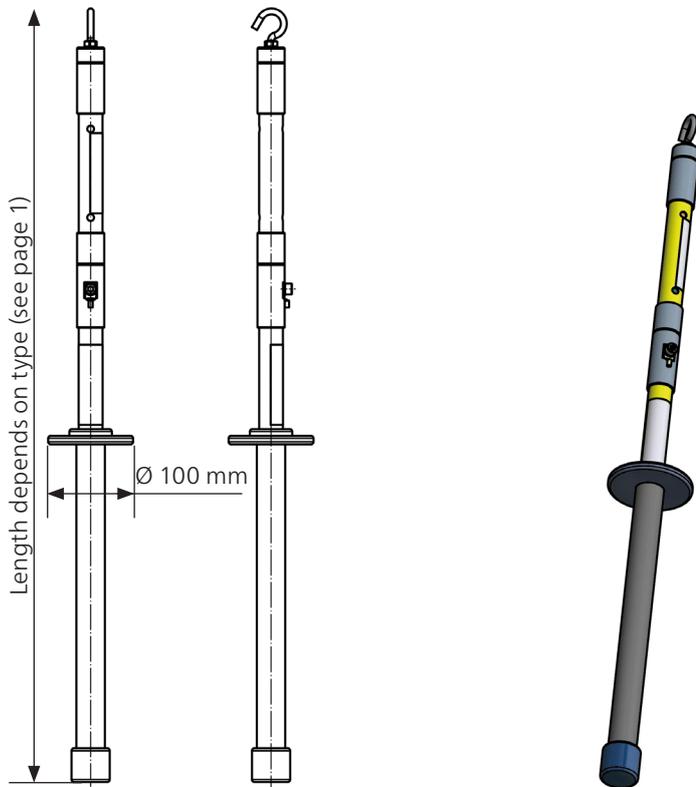


3. Use the black handle to hold the discharge and earth rod and make contact with the test object by touching it with the tip of the discharge and earth rod.



4. Observe the minimum discharge period in accordance with the capacitance of the test object.

Design drawings



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