

# DO200/2000.P

Digital ohmmeter DO 200/2000.P is designed for measuring the resistance in initiating networks used at blasting works with the maximum resistance up to 2000 Ohms.

Measuring is done in two ranges: to 199.9 and 1999 Ohms. The range is switched over automatically. By its circuit and construction design it may be applied both on the surface and in the underground as well as in a dangerous explosive environment

On the front panel, the ohmmeter has 3 1/2-place digital (LCD) display under a transparent cover indicating the value measured.



Terminal clamps on the device are connected to the initiating network resp. resistor measured

The power is supplied by three 1,5 V battery LR6 AA cells placed under the cover. The battery exchange should be done in the safe environment free from the explosion danger with the cover closed watertight again. A special key loosens the screws on the cover. The data accuracy is guaranteed in 1 minute after the battery exchange approximately.

If measuring clamps are short circuited by a suitable wire, the right functioning of the device and battery control are achieved. The device switches on and the display lights up. "Lo" flashing on the display indicates the battery voltage decrease and necessity to exchange.

The device switches on automatically after the resistor measured is connected to the measuring clamps. After the stabilising period (5 s approx.) the value of the resistor measured may be read up. If the ohmmeter range is exceeded in the case that resistance higher than 1999 Ohms is measured, "oF" will appear on the display. In the case that the device does not switch on after the resistor is connected to measuring clamps, the resistance measured is too high or the resistor may be breached.

If the display indicates "E1" function, the ohmmeter malfunctioning is probable and should be dispatched to the manufacturer

Category :  $\text{Ex}$  I M1 EEx ia

## Specification

Range	0 to 199,9 Ohms 200 to 1999 Ohms
Accuracy	±1%
Protection	IP 54
Measuring current	< 20 mA
Current consumption if measuring	< 20 mA
Taking of current in rest	max. 25 µA
Supplying voltage	4,5 V (Umin = 3 V)
Operational temperature	0 °C to 40 °C
Battery life expectancy (depending on type)	approx. 100 measuring hours (with the SANYO battery LR6 2,5 Ah)
Reference conditions	20 °C ±2 °C, Un = 4.5V ±10%
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## Manufacturer



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