

Automatic Digital Circuit Testing Ohmmeter DIGOHM

VSV-Engineering GmbH
SCHAFFLER

BAM-approval ID: BAM-ZK-040



Measuring range: 0,0 – 2000 (1999) Ohm

Measuring current: max. 0,3 mA

Automatic selection of measuring range with or without decimals
appropriate to the given resistance of circuit (auto ranging)

Automatic switching on and switching off of instrument

Automatic zero-adjustment

Waterproof – antistatic – certificate for gassy mines applied for

Battery: Lithium metal battery 1,5 V – AA

Storage temperature: +5°C to +40°C

Operating temperature: -30°C to +60°C

15.000 to 20.000 measurements with one battery

light weight: 350 g, extremely handy size

Dimensions: 135 x 80 x 22 mm

Protection class: IP 67

General

The circuit testing Ohmmeter type DIGOHM is an extremely sturdy and handy testing ohmmeter, which, by the application of our long experience in the production of circuit testing ohmmeters for the mining industry, has been specially developed to withstand the rough handling encountered in the shotfiring practice. This appropriability is confirmed by the approval BAM-ZK-040.

The printed circuit is protected by a sturdy antistatic plastic housing and is sealed in by means of a special synthetic compound to give optimum protection against mechanical impact and moisture. The battery is located in a separate sealed compartment accessible with a Torx-wrench. The battery compartment may be opened only outside of potentially explosive atmospheres. This also applies for battery change.

The LCD-display with 3 ½ digits and a digit size of 13 mm is easily readable under all circumstances. A built-in electronic device selects the appropriate measuring range with or without decimals depending on the circuit resistance. Thus optimum measuring accuracy is always obtained, even for values smaller than 1 Ohm.

If the power source gets exhausted and the tension of the battery drops, this is indicated by "LO BAT" showing up permanently in the upper left field of the display. Afterwards the battery should be exchanged within the next few measurements. While connecting and disconnecting the wire from the terminals the sign "LO BAT" is blinking to show that all digits are working.

If the display shows only the digit 1 on the left side the resistance of the circuit is greater than 1999 ohm.

Since the automatic switching on and the selection of the measuring range are electronically steered there are no mechanical devices in this instrument. This tremendously increases the reliability of the DIGOHM ohmmeter.

Measurement

When the bare wire ends of the electric detonators or the leading lines of a whole firing circuit are connected with the terminals or the contact surfaces the DIGOHM Ohmmeter is switched on and the resistance value is indicated in digits. The calculated value for a given firing circuit should correspond within close limits to the resistance values indicated by the ohmmeter, otherwise the circuit must be inspected and the contacts improved.

Maintenance

The DIGOHM ohmmeter does not need any maintenance at all apart from keeping it clean and tidy. The battery should be exchanged at least once a year and the battery contact leaf springs should be cleaned at the same time or perhaps at shorter intervals to avoid possible interruption of power supply.

Storage temperature between +5°C and +40°C

Storage out of this range can damage the battery and in succession the whole instrument which is excluded then from warranty.



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Battery

We deliver our DIGOHM with a Lithium-metal battery 1,5V type AA of type Energizer Ultimate Lithium. If this is not desired, we deliver our DIGOHM without any battery. Then the customer has to insert the battery locally. In such a case or if a battery change is necessary we recommend to insert a Lithium-metal battery 1,5 V type AA of brand Energizer Ultimate Lithium in brand-new condition. Do not use rechargeable cells. The Energizer Ultimate Lithium size AA 1,5 V is approved by BAM for use in potentially explosive atmospheres. The battery change must be only made outside of potentially explosive atmospheres.

Other battery brands approved by the manufacturer:

VARTA Ultra Lithium, ANSMANN Extreme Lithium, GP Lithium, ENEGITECH Lithium – Type AA.

Do not use rechargeable cells.

Even if you have ohmmeters DIGOHM with original equipment of Alkaline battery (from the year of construction 2013 until now) please exchange the Alkaline battery with a Lithium metal battery. Alkaline batteries can leak even if you use high-quality brand batteries. This can result in a corroded electronic unit. When the electronic unit is already damaged the instrument cannot be repaired which is a total loss.

Exchange the battery at least once a year – unless prior to that „LO BAT“ flashes up permanently in the upper left field of the display. Always use high-quality brand batteries. Always remove a dead battery from the instrument. Always remove the battery from equipment you know you are not going to use for a long time as even leak-proof batteries may corrode.

ONLY USE APPROVED LITHIUM-METAL-BATTERIES!

Accessories in standard package

The standard package consists of:

- 1 leather bag, soft
- 1 carrying strap
- 1 Torx-wrench



Optional equipment

Reinforced leather bag

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