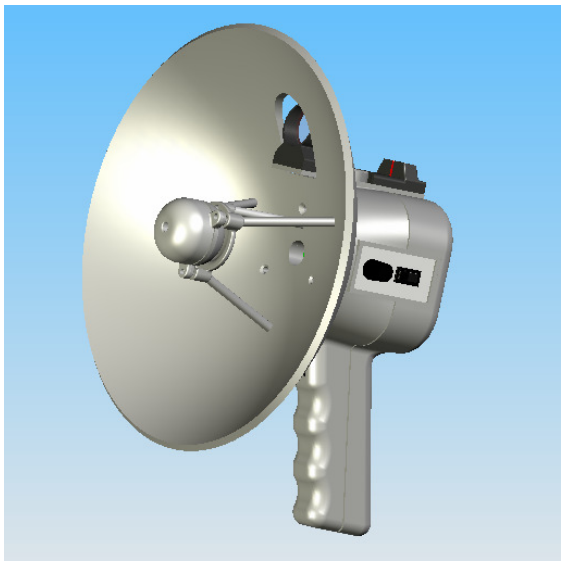
INDIPOINT IDM 40

Ultrasonic Directional Microphone for the Location of Partial Discharges

MAY-ELEKTRONIK

Brief Description

- Usable under live voltage conditions, no need to shut down
- Integrated laser pointer to mark the PD source
- Unaffected by interference
- Light and handy
- For indoor and outdoor use
- Simple to operate
- Uses rechargeable or non-rechargeable batteries
- Low current consumption, long battery life
- Robust transport case
- Additional red dot sight for use in very bright environment



Application

Partial discharges (PDs) are undesirable in medium- and high-voltage installations. They constitute a long term risk to effective insulation and thus also to operational reliability. However, detecting partial discharges without suitable instruments requires considerable experience and excellent powers of hearing.

IndiPoint vastly simplifies the search for PD sources. It comprises a sharply focused ultrasonic microphone specially designed for use in electrical energy distribution installations. It is not necessary to shut down the installation before searching for faults.
IndiPoint is suitable for use in both indoor and outdoor areas.

Function

Partial discharges give rise not only to electrical signals, but also to sounds in both the audible and ultrasonic range. These sound sources can be located to outstanding effect with a directional microphone. IndiPoint operates in the ultrasonic range where extraneous noise is scarcely encountered.
IndiPoint comprises an ultrasonic microphone with an amplifier and headphones. By adjusting the amplification, the volume of weak PD sources can be increased and that of strong sources turned down.
The large parabolic reflector sharply focuses the sound and allows the source to be identified with pinpoint accuracy.
With the aid of the integrated laser pointer, the PD source can then be marked out for ease of location. For use in bright sunlight out of doors, IndiPoint is also equipped with a red dot sight as optical sighting device.
The low current consumption of the amplifier enables the unit to operate for approx. 170 hours on one battery charge.

Additional Uses

IndiPoint is suitable not only for identifying partial discharges. It is also ideal for locating leaks, for example from pressurized pipes and tanks.

Accessories

IndiPoint is supplied complete with all accessories in a robust plastic transport case.
Power is supplied by standard rechargeable batteries, so that in an emergency ordinary batteries (type AA) can be used instead. A quick-charger suitable for wide-range input is also included in the supply.

IDM 40 is ideal for locating faults in medium- and high-voltage installations

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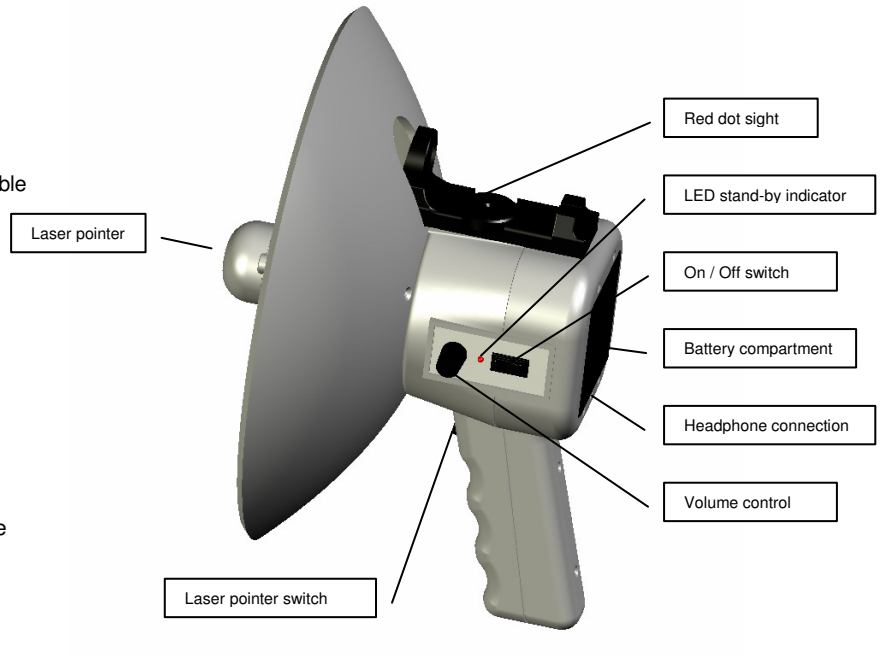
Technical Data

Directional Microphone

Casing	Impact-resistant plastic
Reflector diameter	277 mm
Overall length	205 mm
Weight	Approx. 830 g (inc. rechargeable batteries)
Range	Up to 20 m
Permissible ambient temperature	Operation: -10° ... 40° C Storage: -20° ... 50° C
Operating frequency	40 KHz
Current consumption	Approx. 10 mA
Headphone connection	3.5 mm jack socket
Battery compartment	4 x AA normal or rechargeable batteries
Laser pointer	As per EN 60825-1 Laser Class 2 P < 1mW, 650 nm
Tripod thread	1/4 "
Optical sighting device	red dot sight on top



IDM 40, operating controls

Accessories Included

Headphones	Enclosed design 3.5 mm jack plug Weight approx. 270 g
Batteries	4 x AA rechargeable NiMH batteries 1700 mAh Adequate for approx. 170 h continuous operation (without laser pointer)
Charger	Automatic quick-charger with compensation charging mode for 4 NiMH mignon cells Wide-range input 90 – 250 VAC, 50 - 60 Hz Power consumption max. 15VA

Transport Case

Dimensions	510 x 340 x 275 mm (L x B x H)
Material	Plastic
Overall weight	Approx. 7 Kg (with IDM 40 and all accessories)

The right is reserved to make changes to the technical specification.
Issue date: November 2010

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