



ELECTRONIC MAGNETIC FIELD INDICATOR EMFI-1 product information

Intended Use

The electronic magnetic field indicator EMFI-1 has been designed for detection of the presence of magnetic fields and the residual flux density of ferromagnetic elements, e.g. steel elements, magnetized as a result of:

- their mechanical working in a production process
- placing them in a magnetic field, e.g. coming from a permanent magnet (ferromagnetic elements of measuring devices, such as watt-hour meters, water meters, gas meters).

Display Modes

The electronic magnetic field indicator can operate in one of the two display modes of values of magnetic flux density in a line of LEDs:

- bar graph display mode - with increase of magnetic flux density LEDs of successive sub-ranges light up in series
- dot display mode - with increase of magnetic flux density a LED of successive sub-range lights up

The display mode selection is made by a switch.

Additional Functions

The indicator is equipped with LEDs displaying:

- necessity of battery replacement
- magnetic field polarity (N or S)

Technical Data

- measuring range: $0.1 \div 1$ mT, in ten sub-ranges with interval of 0.1 mT; an exceed of the range of 1 mT does not damage the indicator
- supply – 9 V battery (6F22)
- maximum current consumption in:
 - bar graph display mode – 70 mA
 - dot display mode – 30 mA
- minimum operation time, of battery:
 - zinc-carbon: in bar graph display mode – 6.5 h; in dot display mode – 15 h
 - alkaline: in bar graph display mode – 8.5 h; in dot display mode – 19 h
 - lithium: in bar graph display mode – 17 h; in dot display mode – 40 h
- dimensions:
 - length: without measuring probe – 111 mm; with measuring probe – 185 mm
 - width: 67 mm
 - height: 32 mm
- weight (without battery): 99 g
- operation temperature: $-10 \div +40$ °C



Manufacturer: R&D MAGNETO Ultd.
Al. Wyzwolenia 9 lok. 21
42-224 Czestochowa, Poland

Tel./Fax: +48 34 366 88 58
e-mail: wskazniki@magneto.pl
www.magneto.pl