



MAGNETIC FIELD READER MFR-1 product information

Intended Use

Magnetic field reader MFR-1 enables the user to view the location of magnetic poles of a stationary magnetic field created by permanent magnets or DC electromagnets. The reader is usable to quick quality control of permanent magnets and devices constructed from them. It can also serve for educational purposes. For the sake of its flexibility, the reader can picture the location of magnetic poles in three-dimensional space.

Principle of Operation

The reader, placed in a magnetic field, pictures the location of the magnetic poles (dark green areas of the reader) and transitions between the magnetic poles, where the magnetic field strength is very small or equal to zero (light green areas of the reader). The reader does not distinguish the magnetic polarity (N or S). The reader memorizes the picture of a given magnetic field, but after placing it in a magnetic field with a different configuration of force lines, the previous picture becomes completely erased. The previous picture can also be erased by running a permanent magnet across the reader surface – the magnet's width or diameter should be larger than the reader's width. Then, the reader takes on a uniform dark green colour.

Dimensions:

- length: 86 mm,
- width: 54 mm,
- thickness: 0.4 mm.



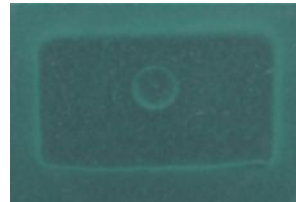
Example pictures of location of magnetic poles:



**annular neodymium
magnet magnetized
through its diameter**



magnetic rubber



**rectangular ferrite
magnet with hole
magnetized
through its
thickness**

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