



# Operating Manual



MP-1  
Residual field strength meter



## DESCRIPTION

The MPI-1 residual field strength meter measures the residual magnetism (polarisation) of steel parts and is used especially for checking demagnetised steel parts.

## MEASUREMENT RANGES

0 – 5 A/cm  
0 – 20 A/cm

## TOLERANCE LIMITATIONS

On the display, the areas coloured blue and red mark tolerance limits as prescribed by the industry.

- Feed: 1.5V baby battery
- Accuracy:  $\pm 3\%$

## OPERATION

Switch on the meter by turning the dial to **I**. Hold the probe with the tip pointing downwards and as far away from any magnets or iron parts as possible, Press the blue button to set the zero point.

Alternatively, Magnaflux can supply a reference standard of 5 A/cm (part number 133011) as an accessory to control the correct functionality of the meter. The measuring probe is set perpendicular to the red circle of the calibration standard.

Display: 5 A/cm North

## CALIBRATION

We recommend an annual factory calibration.

Please note that for the annual calibration, and when ordering a reference standard, the entire unit must be returned to Magnaflux.

## IMPORTANT

**Please note:** the sensitivity of the MP-1's display is so high that external magnetic fields - including the earth's magnetic field - can strongly influence the measurement. Because of this, the probe must always be used and stored in the same direction in the room.

When the red LED flashes at the bottom-right of the display, replace the battery.

The MP-1 meter must only be used as intended for measuring residual magnetism (polarisation) on workpiece surfaces.



### WARNING

Danger due to high electrical voltage. Electric shocks and burns are possible. Do not touch any live parts with the probe sensor.



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