

www.list-magnetik.com



Fluxmeter FLUX-CHECK 250
LM-FL250-HM1 and LM-FL250-HM2
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The compact List-Magnetik FLUX-CHECK 250 fluxmeter is a new handheld instrument of this size for determining the magnetic flux Φ (Phi) of a magnet system or a single magnet. When testing, it is important to know the strength of the magnet's magnetization. Measuring the magnetic field strength with a magnetic field meter is only possible at specific points and does not take into account the volume of the magnet. This task is performed by a fluxmeter with a Helmholtz coil.

The recording of the recorded pulse curve of the flow measurement results in an area which, as an integral, gives the flow value. This area is displayed graphically on the LCD touch panel with a resolution of 320x480 pixels and the correct flux value is calculated from it. The drift that many fluxmeter show after switching on, which leads to a longer waiting time until the first measurement or which has to be compensated again and again, does not occur with the FLUX-CHECK 250. The instrument is ready for measurement immediately after switching on.

In addition to the magnetic flux Φ , other information about the coil and the measured magnet can be stored in the instrument and used to calculate additional information:

- * The number of turns of the coil (n) - this is used to calculate the "real flux".
- * The coil constant of the Helmholtz coil - this is used to calculate the "magnetic moment".
- * The volume of the magnet - this is used to calculate the flux density B

Technical Data Fluxmeter FLUX-CHECK 250

- Measuring units:
magnetic flux mVs (milli-Volt-second, corresponds to the SI unit mWb / milli-Weber)
Measuring ranges: 0-10 mVs and 0-250 mVs, automatic or manual range switching
Real flux: mVs / n
Magnetic moment: mVs * cm
Flux density: A/cm or mT
- Accuracy: 2%, Repeatability: 1%, Resolution: 0.001 mVs
- Display: LCD touch panel color 320x480 pixel, Multilingual menu navigation: German, English, Italian, French, Spanish
- Data logger: 10,000 measurements, flexibly divisible, Statistics: Count / Max / Min / Average / Standard deviation
- Interface: wireless interface for communication with Android, iOS and Windows, External control: via USB and SCPI communication interface, App for Android, iOS, Windows: free of charge

LM-FL250-HM1: Fluxmeter FLUX-CHECK 250 with Helmholtz moment coil HM-1

- Coil data: Number of windings: 2x 600, Coil constant: 0.0096 cm
- Inner diameter: 90 mm, Outer diameter: 110 mm, Homogeneous measuring range: 35 mm

LM-FL250-HM2: Fluxmeter FLUX-CHECK 250 with Helmholtz moment coil HM-2

- Coil data: Number of windings: 2x 400, Coil constant: 0.01374 cm
- Inner diameter: 49 mm, Outer diameter: 80 mm, Homogeneous measuring range: 29 mm

