

## MAGNETIC FIELD STRENGTH METER GAUSS-/TESLAMETER FH 55



FH 55

### • Description

The magnetic field strength meter FH 55 is a compact precision instrument that measures the magnetic flux density (induction)  $B$  and the magnetic field strength  $H$  in Gauss, Tesla or Ampere/Meter. The instrument is supplied with a zero field chamber and an operation manual in English language.

Many different Hall probes are available, for example probes with especially small active areas for measurements of the size of a dot, or probes with a high degree of sensitivity or with a built-in sensor for correction of temperature dependency. The latter also allows display of the temperature. You can find further information in the probe data sheet.

### • Applications

The FH 55 can be applied in the following areas:

- Quality control of permanent magnets
- Quality control of soft magnetic components
- Quality control of magnet systems (motors, loudspeakers, magnetic clamps, couplings, etc.)
- Materials research

- Development of magnet systems
- Magnet testing
- Magnet sorting
- Material analysis
- Automated testing
- Process control
- ...

## ● Features

- 3 ¾ - digit LC display (0...+/- 2999)
- Ranges\* :  
30 µT, 300 µT, 3 mT, 30 mT, 300 mT, 3 T, 30 T  
300 mG, 3 G, 30 G, 300 G, 3 kG, 30 kG, 300 kG  
24 A/m, 240 A/m, 2.4 kA/m, 24 kA/m, 240 kA/m, 2.4 MA/m, 24 MA/m  
\*ranges available depend on probe type
- Frequency: DC, 30 Hz – 20 kHz (limits depend on probe type)
- Basic accuracy (without probe):  
DC : ± 0.3 %  
AC : ± 2 %
- Automatic zero probe
- Automatic and manual range selection
- Limit comparators: 2 trip points, Low/OK/High display, relay outputs (alternators)
- Relative measurement
- Filter
- Max./Min. hold
- Peak hold for pulses
- Probe temperature correction
- Probe temperature display
- Probe linearity correction
- Analog output (uncorrected)
- RS232 interface
- Large probe selection, see probe datasheet

Temperature range : for Operation +10 °C to +40 °C , for storage -40 °C to +60 °C  
Power supply : 90-250 V, 50-60 Hz, 5 W max.  
Weight : approx. 2 kg  
Width / Depth / Height : 248 mm / 180 mm / 100 mm

Due to continuous product improvements the specifications are subject to change without notice

## ● Accessories / Options (not included with instrument)

- RS232 connection cable (Null-Modem cable, 3 m length)
- USB adapter (the RS232 cable is additionally required)
- Data acquisition software (for operation with RS232 interface or USB via adapter)
- Rack mounting adapter kit for 19" racks

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