

Field Strength Meter H2

RS 232 Interface, Maximum Value Memory, Comparator

The Field Strength Meter H2 is suitable for measuring DC and AC magnetic fields.

Application: - Research - Development - Production - Laboratory - Training



The Field Strength Meter H2 is an electronically digital display instrument.

A variety of four coils can be connected (see Technical data).

Special sensor dimensions and the installation of sensors in other devices to customers' specifications are possible.

Installed in the tip of the sensors is a Hall generator that outputs a voltage proportional to the magnetic field strength; this voltage is amplified in an instrument amplifier and output to the digital display.

The reading is displayed in the unit 'millitesla' (mT), but can also be switched over to A/m, whereby the position of the decimal point is set automatically.

Setting of the Field Strength Meter H2 zero point and calibration of the instrument are performed via the knobs on the front panel.

Field Strength Meter calibration is effected using an internal calibration voltage. Even greater measuring accuracy is achieved by using reference magnets that are available in different field strengths. These are unaffected by external fields and highly stable against artificial ageing.

The H2 Field Strength Meter has an analog output port for connection of a chart recorder or A/D converter for digital further processing of the output voltage.

Analog display AZ1

An analogue display with pointer meter that can be read clearly from a distance of up to 3 metres is available as table instrument for making serial measurements. The analogue display is connected to the analogue output of the Field Strength Meter H2.

An additional power supply is not required. The respective tolerance range can be marked on the transparent meter cover with a marking pen so that when making the measurements it is unambiguously visible whether the meter pointer is within the tolerance range, indicating that the reading is "good".

The sensitivity of the analogue display can be adjusted continuously from 10 % to 100 % with a potentiometer.

Technical Data:

Display	LCD-display, 15 mm high, 3 1/2 digits, 3 readings / second, automatically polarity display
Measuring ranges	2·10 E1 mT, 2·10 E2 mT, 2·10 E3 mT, 2·10 E4 mT
Measuring constant	10 ⁻² mT/Digit, 10 ⁻¹ mT/Digit, 10 ⁻⁰ mT/Digit und 10 ⁻¹ mT/Digit
Measuring accuracy	≥ 1 % with internal tension ≥ 0,5 % with calibrating magnet
Reproducibility	≥ 0,2 %
Output	Analog output ± 199,9 mV equivalent 1999 Digit, connection for analog display, X-Y-recorder or printer
Power supply	External power supply unit 220 Volt, 50 Hz, ca. 10 VA
Interface	RS 232 (V24) Minimalvalue storage
Measured data storage	Maximalvalue storage, double comparator
Comparator	
Transversal coil HS-T 103	0,8 x 3,6 x 80 mm (without protective conduit) 2,0 x 4,0 x 80 mm (with protective conduit)
Transversal coils:	Dimension:
HS-T 603	0,8 x 5,0 x 70 mm (measured without handle)
HS-T 303	1,6 x 5,0 x 70 mm (measured without handle)
Axial coil HS-A 203	Dimension: 2,5 φ x 60 mm (measured without handle)
Axial coil HS-A 303	Dimension: 6,0 φ x 75 mm (measured without handle)
Dimension	260 mm x 105 mm x 265 mm (B x H x T)
Weight	ca. 2,5 kg

Technical changes reserved!

Exclusively the specifications in the offer are binding!