

Complete functionality for industrial application. Data storage on PC or control via standard interfaces. Digital interface.



## Industrial Gaussmeter IGM11

### Application

The industrial gaussmeter IGM11 is used to measure magnetic DC and AC fields. The measurements are flux density in Tesla or Gauss and the field strength in Amps per meter.

It has a high measuring accuracy with several built-in features.

### Function Description

The IGM11 is standardly equipped with a compact axial probe. Special probes available. All probes are equipped with EEPROMs for identification, parameterization and linearization.

The measuring range is up to 4.5 (optional 10) Tesla for the flux density and 3800 (optional 8000) kA/m for the field strength respectively. The resolution is down to 1  $\mu$ T or 1 A/m.

Further features are peak hold (positive and negative), linearity adjustment, null balance and automatic limit value monitoring. The measuring values can easily be visualized and stored on the PC or a control. Service and control functions are also available with the software.

The device can be parameterized via the control keys or via a Windows program using the USB interface.

## Technical Data

Display		Graphics LCD (illuminated)					
Units		Tesla [T]		Gauss [G] / Oersted [Oe]		Amps/Meter [A/m]	
Measuring Ranges	Resolution	10 T	1 mT	100 kG, kOe	10 G, Oe	8000 kA/m	1 kA/m
(Measurements beyond 4.5 T only with special probes)		1 T	100 $\mu$ T	10 kG, kOe	1 G, Oe	1000 kA/m	100 A/m
		100	10 $\mu$ T	1 kG, kOe	100 mG, mOe	100 kA/m	10 A/m
		10 mT	1 $\mu$ T	100 G, Oe	100 G, Oe	10 kA/m	1 A/m
Accuracy		DC $\pm 0.5$ % up to 1.5 T and $\pm 1$ % from 1.5 T; Peak $\pm 2$ %; AC $\pm 2$ %					
Frequency Range		DC / AC 0 Hz...5 kHz (r.m.s. value)					
Peak Hold		$t_{\text{signal}} > 250 \mu\text{s}$					
Power Supply		11.5...26.5 V DC, 2.4W (200 mA/100 mA)					
Temperature Range		0°C...+55°C (non bedewing)					
Dimensions		approximately 72 x 90 x 63 mm <sup>3</sup> (W x H x D), assembly on cap rail					
Weight		approximately 150 g					
Measuring Probes		Axial Probe					
		All Probes: Active area $\varnothing$ 0.15 mm Cable length: 1.5 m (special lengths available) Integrated EEPROM					
Interfaces		USB for parameterization  EIA-232  Ethernet 10 MBit / 100 MBit  Data protocol RFC 854  3 dig. Inputs 24V, 4 dig. Outputs 24 V, fully parameterizable					

The specifications are subject to change without notice.

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