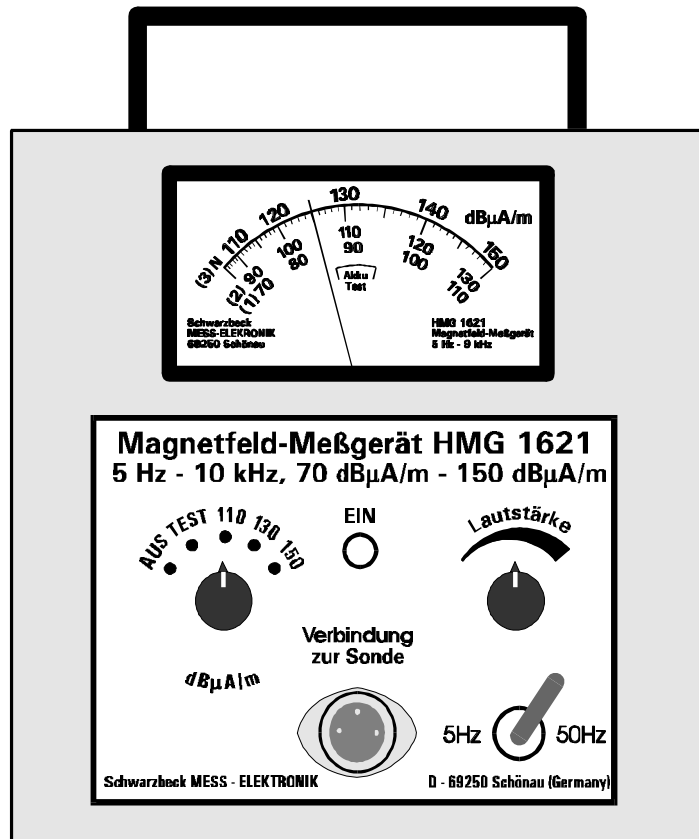




## Magnetic Field-Strength Meter 5 Hz - 10 kHz HMG 1621



Meter      Anzeigeteil

*Cable connection probe-meter 1,5 m with connectors on both ends.*

*Kabelverbindung Sonde - Anzeigeteil auf beiden Seiten gesteckt, 1,5 m lang*



*Sonde 5 Hz - 10 kHz oder 50 Hz - 10 kHz*

*Probe 5 Hz - 10 kHz or 50 Hz - 10 kHz*

The Magnetic Field-Strength Meter HMG 1621 measures in the frequency range from 5 Hz to 10 kHz. Using loop current sensing the conversion factor of the probe is constant over the whole frequency range and needs no correction. The very wide linear amplitude range from 70 dB $\mu$ A/m (3 mA/m ) to 150 dB $\mu$ A/m (30 A/m) is divided into 3 meter ranges.

Magnetic probe and meter are connected via a cable. The meter uses a rechargeable battery which is also used for the power supply of the probe. Battery capacity is sufficient for several hours of mains independent operation. Charging is done by an automatic wall plug charger. The built-in loudspeaker is very useful to identify signals. Two different probes can be used alternatively. The main difference between the probes is the lower frequency limit. The probe for 5 Hz lower frequency limit is larger and heavier than the probe with 50 Hz. The meter has a built in 50 Hz high pass filter for optional suppression of strong low frequency fields. This is an important feature when only the 5 Hz probe is available. Standard scaling is dB $\mu$ A/m. Other scaling is available on request.

## HMG 1621                      Short Form Data

<b>Range of field strength:</b>	70 dB $\mu$ A/m - 150 dB $\mu$ A/m in 3 meter ranges Acc. to 3 mA/m - 30 A/m Acc. to 0,0375 mG - 375 mG
<b>Frequency range:</b>	Nom. 5 Hz (50 Hz) - 10 kHz depending on the probe in use Switchable high pass filter 50 Hz to suppress very low frequency signals when the 5 Hz probe is in use.
<b>Indication (Meter reading):</b>	Moving coil meter 82 x 42 mm, scale length app. 60 mm Range of 80 dB in 3 meter ranges Upper scale: 110 dB $\mu$ A/m - 150 dB $\mu$ A/m Centre scale: 90 dB $\mu$ A/m - 130 dB $\mu$ A/m Lower scale: 70 dB $\mu$ A/m - 110 dB $\mu$ A/m
<b>Resolution:</b>	1 dB $\mu$ A/m
<b>Measuring outputs:</b>	Linear and logarithmic with Cinch - connectors (Ri=10k)
<b>Accuracy:</b>	With standard calibration in the main part of the meter scale (1/2 - 2/3): +-1,5 dB, with enhanced calibration under specified conditions +-1 dB
<b>Audio:</b>	Built-in loudspeaker
<b>Power supply:</b>	Built-in rechargeable battery. Type dry lead-acid, 12 V / 1,1 Ah Operating time approx. 4 hours. Battery test with instrument under test load. Charging with wall plug charger in approx. 4 hours.
<b>Dimensions, weight:</b>	Meter 135 x 135 x 135 mm (W x H x D), approx. 2 kg (incl. battery) Probe 5 Hz: 125 mm loop diameter, 30 mm high Probe 50 Hz: loop diameter 140 mm , 15 mm high Probe 5 Hz: 1 kg, Probe 50 Hz: 0,4 kg
<b>Meter cabinet:</b>	Rugged aluminium frame. Side walls plastic coated aluminium.
<b>Probe construction:</b>	Cover for loop and amplifier from insulating material. Connector 3 - pin DIN Cable 1,5 m , shielded, 3-pin-DIN - connector on both ends.