



Safety Products

SHBD1KA

- Magnetic B-Field Sensor Head
- Isotropic
- DC–1000Hz
- 70dB dynamic range
- Sensitivity >200µT

Features

The SHBD1KA B-field sensor head is based on a set of three orthogonally arranged Hall sensors. The three voltages which correspond to the spatial components are individually available at the sensor head output. An SM-series meter (required for use of this sensor head) calculates the resulting isotropic field strength.



This sensor head detects magnetic fields from 0 Hz to 1000 Hz covering those fields which typically occur in ISM environments. The sensitivity and linearity characteristics of this sensor head make it ideal for measuring human exposure to magnetic fields as required by law in both public and professional environments.

The sensor head is supplied with factory calibration. This model is also available in an M1-version which includes an accredited 17025-compliant calibration.

Typical Applications

- Locations where there are patients with pacemakers
- MRI-Magnetic Resonance Imaging
- Industrial Electrolysis and Electroplating
- Railway: Power Supply Plants

Specifications

Frequency Range: 0 Hz–1000 Hz

Type of Frequency Response: Flat

Measurement Range: 200 µT–600 mT

Dynamic Range: 70 dB

Sensor Type: Hall sensors

Directivity: Isotropic

Accuracy:

Flatness Frequency Response:
±0.5 dB (0 Hz–1 kHz)@ 5mT

Linearity: ±0.7 dB (1–100 mT)

Isotropic Response (@ 10mT): ±0.5 dB

Operation Temperature: 0°C–40°C

Size: 278 x 16 mm, 10.95 x 0.63 in

Weight: 63g, 2.23oz

Export Classification: EAR99

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