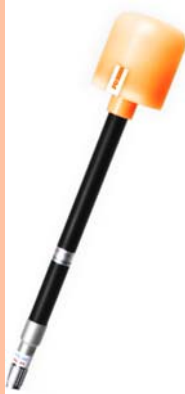




SHB5H400K

- Magnetic B-Field Sensor Head
- Isotropic
- 1Hz-400kHz
- 80dB dynamic range
- Sensitivity >0.1 μ T



Features

The SHB5H400K B-field sensor head is based on a set of three mutually orthogonal coils. 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 1 Hz to 400 kHz covering those fields that typically occur in Industrial and Medical environments (ISM). The characteristics of this sensor head comply with the requirements for instruments 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

- Power Lines
- Transformer Stations
- Power Industry
- Magnetic Gates
- Anti-Theft Systems

Specifications

Frequency Range: 1 Hz–400 kHz

Type of Frequency Response: Flat

Measurement Range: 0.1 μ T–1 mT

Dynamic Range: >80 dB

Sensor Type: Coils

Directivity: Isotropic

Accuracy:

Flatness Frequency Response:

± 0.5 dB (50 Hz–50 kHz) @ 30 μ T

± 1 dB (50 kHz–400 kHz) @ 30 μ T

Linearity:

± 0.5 dB (1 μ T–1 mT) @ 50Hz

± 0.7 dB (500 μ T–1 mT) @ 50Hz

Isotropic Response (@ 50 Hz): ± 0.5 dB

Operation Temperature: 0°C–50°C

Size: 327 x 60 mm, 12.88 x 2.4 in

Weight: 120g, 4.2 oz

Export Classification: EAR99

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