



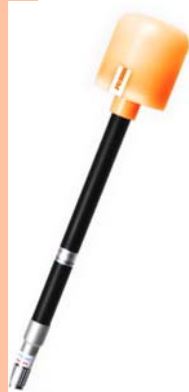
Safety Products

SHE5H400K

- Electric E-Field Sensor Head
- Isotropic
- 5Hz–400kHz
- 60dB dynamic range
- Sensitivity 20 V/m

Features

The SHE5H400K E-field sensor head is based on a set of three mutually orthogonal capacitors. 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.



The characteristics of this sensor head comply with the requirements for instruments measuring human exposure to electric fields as required by law in both public and professional environments. This sensor head detects fields in the 5 Hz to 400 kHz frequency range which are typically found in environments where high voltage power lines and/or electricity transformer stations are present.

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

- High Voltage Power Lines
- Transformer Substations

Specifications

Frequency Range: 5 Hz–400 kHz

Type of Frequency Response: Flat

Measurement Range: 20 V/m–20 kV/m CW

Dynamic Range: 60 dB

Sensor Type: Capacitors

Directivity: Isotropic

Accuracy:

Flatness Frequency Response:

± 0.5 dB (50 Hz–50 kHz) @ 1000 V/m

± 1 dB (50 kHz–400 kHz) @ 1000 V/m

Linearity: ± 0.5 (>200 V/m)

Isotropic Response (@ 100 MHz): ± 0.5 dB

Calibration Frequencies: 5-15-50-100-500-1500-5000-15000-50000-100000-400000 (Hz)

Operation Temperature: 0°C–50°C

Size: 365 x 120 mm, 14.38 x 4.72

Weight: 210 g, 7.4 oz

Export Classification: EAR99

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