



## Safety Products

### SHMD400K

- E, B- and H-Field Electric Sensor Head
- Isotropic
- DC–400kHz
- 60dB dynamic range

### Features

The SHMD400K E-, B- and H-field sensor head consists of three different sensors combined into one: an electric sensor (E-field), a magnetic induction sensor (B-field) and a magneto-static sensor (H-field). Each sensor within the probe is composed of three mutually orthogonal sensitive elements.



The operator can select the desired sensor type using a switch located at the base of the sensor head.

The SHMD400K sensor head is not available separately, but is only offered in conjunction with the purchase of an SM400K Safety Meter. See the SM400K Safety Meter specification sheet for details.

### Typical Applications

- Energy
- Medical
- Automotive
- Railways
- Industrial

### Specifications

	E-Field	B-Field	H-Field
Field Type:	Electric	Magnetic Induction	Magneto-Static
Sensor Type:	Capacitive	Inductive	Hall
Frequency Range:	1Hz–400 kHz	1Hz–400 kHz	DC
Response Type:	Flat	Flat	–
Flatness Frequency Response:	±1 dB(10Hz-400kHz) @ 200 V/m	±1 dB(10Hz-400kHz) @ 20 $\mu$ T	–
Measurement Range:	20 V/m – 20 kV/m	300 nT – 16 mT	5 $\mu$ T–5mT
Dynamic Range:	>60 dB	>94 dB	>60 dB
Linearity:	±0.5 dB (>200 V/m)	±0.5 dB (>2 $\mu$ T)	±0.5 dB (>10 $\mu$ T)
Directivity:	Isotropic	Isotropic	Isotropic
Isotropic Response:	±1 dB	±1 dB	±1 dB
Operation Temperature:	0°C– 40°C	0°C– 40°C	0°C– 40°C
Size (sphere diameter):	365 x 120 mm, 14.4 x 4.7 in		
Weight:	300 g, 10.6 oz		
Compatibility:	SM40G, SM400K		
Export Classification:	EAR99		

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