



Safety Products

SHMD20K

- E, B- and H-Field Electric Sensor Head
- Isotropic
- DC–20kHz
- 60dB dynamic range

Features

The SHMD20K 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 SHMD20K sensor head is not available separately, but is only offered in conjunction with the purchase of an SM400K or SM40G Safety Meter. See the SM400K or SM40G 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–20 kHz	1Hz–20 kHz	DC
Response Type:	Flat	Flat	–
Flatness Frequency Response:	±1 dB(10Hz-20kHz) @ 200 V/m	±1 dB(10Hz-20kHz) @ 20 μT	–
Measurement Range:	20 V/m – 20 kV/m	300 nT – 16 mT	5μT–5mT
Dynamic Range:	>60 dB	>94 dB	>60 dB
Linearity:	±0.5 dB (>200 V/m)	±0.5 dB (>2 μT)	±0.5 dB (>10μT)
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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