



OPERATING SPECIFICATIONS

Dynamic

Environmental

Electrical



21 mm OD X 27 mm H

(isolated from mounting surface)

PRODUCT DATA SHEET

Peak Sensitivity, Ref V/(m/s)......106 dB Operating Frequency Range 35-65 kHz

Resonant Frequency, Ref V/(m/s).....55 kHz

Temperature Range-35 to 80°C

Shock Limit500 g

Weight30 grams Case Material.....Anodized Aluminum

Face Material......Ceramic

Connector.....SMA

Connector Locations.....Side

Gain 26 dB

Preamp DC power 5 V

Grounding......Case Grounding

Noise level at input.....<3 μV

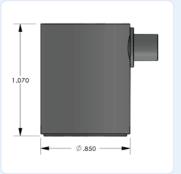
Preamplifier Dynamic Range>87 dB Preamplifier Impedance50 Ω

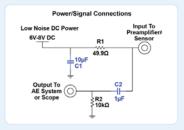
Completely enclosed crystal for RFI/EMI immunity

ISPK6I Sensor

Intrinsically Safe Sensor







DESCRIPTION AND FEATURES

ISPK6I is a low frequency, resonant acoustic emission as pulser and receiver.

APPLICATIONS

The sensor can be used in any application with a noisy environment and requiring a small, narrowband frequency response with intrinsic safe certification.

sensor with an integral ultra low noise and low power preamplifier. It is designed to meet the intrinsic safety (IS) standards (when used with our 1281-IS AE interface), and IP65 environmental requirements. The bandpass filtered preamplifier has a gain of 26 dB and can drive up to 200 meters of cable. This sensor represents an improvement in both noise and power consumption. With noise level below 3 µV and power consumption as little as 25 mW, the sensor is ideal for use with battery powered portable equipment. The ISPK6I features an anodized aluminum cavity with an SMA connector exiting to the side. The preamplifier features an auto sensor testing (Tone Burst AST) feature through which the sensor can be used both

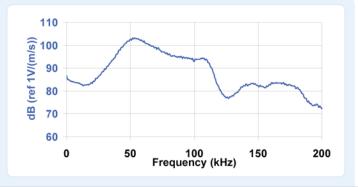
ORDERING INFORMATION AND ACCESSORIES

ISPK6I	ISPK6I
Magnetic Hold-Down	MHPK15I
IS Barrier/Preamplifier Interface	1281
Cable (specify length in '-XX' m)	.1281 IS cable-XX
	(SMA/BNC)
Amplifier Subsystems	AE2A, AE5A

Sensors include

NIST Calibration Certificate & Warranty

 * AST — Auto Sensor Testing feature allows AE systems to control the sensor as a pulser and a receiver at the same time. It can therefore characterize its own condition as well as send out a simulated acoustic emission wave that other sensors can detect, so the condition of the nearby sensors also can be tested.











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