

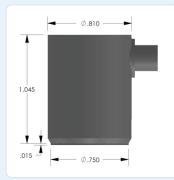
Products & Systems Division

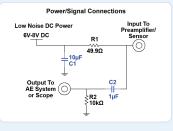


## **PK30I Sensor**

**Integral Preamplifier Sensor** 







### **DESCRIPTION AND FEATURES**

The PK30I is a narrow band sensor featuring an integral, ultra low noise and low power preamplifier. The bandpass filtered preamplifier has a gain of 26dB which can drive up to 200 meters of cable. The sensor has a resonance frequency around 300kHz. The PK series sensors represent an improvement in both noise and power consumption. With noise level below  $3 \,\mu\text{V}$  and power consumption as little as  $25 \,\text{mW}$ , the sensor is ideal for use with battery powered portable equipment. The PK30I features a rugged stainless steel, integrated body structure.

### **APPLICATIONS**

PK30I sensor has been designed to be used with pocket AE system, a small hand-held AE system, or with Highway-II an outdoor rated, on-line monitoring system.

# **PRODUCT DATA SHEET**

### **OPERATING SPECIFICATIONS**

#### Dynamic

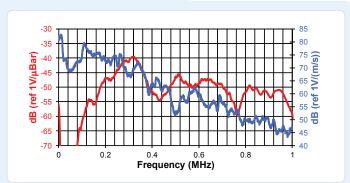
Dynamic	
Peak Sensitivity, Ref V/(m	/s)82 dB
Peak Sensitivity, Ref V/µb	ar39 dB
	ge 200-450 kHz
	V/(m/s)
	V/μbar350 kHz
Directionancy	······································
Environmental	
Temperature Range	35 to 75⁰C
Shock Limit	500 g
Completely enclosed crys	stal for RFI/EMI immunity
Physical	
/	0.81"OD X 1.06"H
DIMENSIONS	20.6 mm OD X 27 mm H
14/-1-I-I	
0	
	Stainless Steel (304)
	Ceramic
	SMA
Connector Locations	Side
Electrical	
Gain	
	<3 μV
	Case Grounding
-	(isolated from mounting surface)

(isolated from mounting surface)

### **ORDERING INFORMATION AND ACCESSORIES**

PK30I PK30I
Cable (specify length in '-XX' m)1234-SMA/BNC-X
Magnetic Hold-Down MHR30I
Preamp to System Cable (specify length in 'm') 1234-X
Amplifier Subsystems AE2A, AE5A

Sensors include NIST Calibration Certificate & Warranty



WORLDWIDE HEADQUARTERS: 195 Clarksville Rd • Princeton Jct. NJ 08550 • USA T: +1.609.716.4000 • F: +1.609.716.0706 E-MAIL: sales.systems@mistrasgroup.com CANADA CHINA FRANCE GERMANY GREECE

HOLLAND T· +1 403 556 1350 T: +86.10.5877.3672 INDIA T: +331 498 26040 JAPAN T: +49.040 2000.4025 MIDDLE EAST T: +30.210.2846.801 RUSSIA

T +31 010 245 0325 T: +91.22.2586.2444 T +81 33 498 3570 T: +44(0)1954,231,612 T: +7495.789.4549

SCANDINAVIA T: +46(0)31.252040 S. AMERICA UK

T: +55.11.3082.5111 T: +44(0)1954.231.612