

# HD15 Sensor

## Low Frequency Miniature Acoustic Emission Sensor

### Description and Features

The HD15 is a very small Acoustic Emission sensor that is built within a Hex 6-32 threaded standoff for easy mounting. Offering low frequency and high sensitivity AE response, it comes standard with an 8-inch integral cable and choice of BNC or SMA connector.

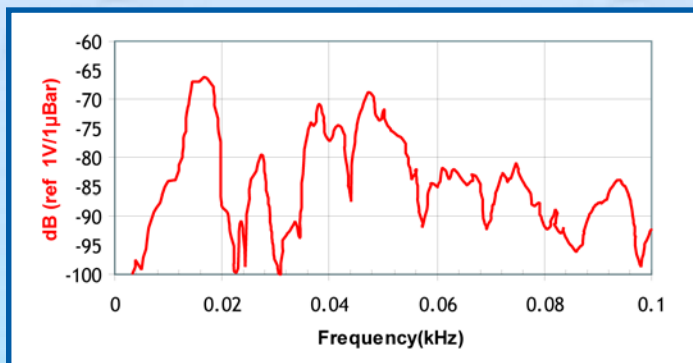
### Applications

This miniature sensor is ideal for any application that requires a small, low frequency and threaded AE sensor mounting.



PAC's HD15 Sensor, along with the AE5A Wide Bandwidth AE Amplifier.

It is especially useful where there is little room for sensor mounting.



Frequency response of the HD15. Calibration based on ASTM E976.

### Operating Specifications

#### Dynamic

Peak Sensitivity, Ref V/µbar .....	-66 dB
Operating Frequency Range .....	130 - 530 kHz
Resonant Freq. V/(m/s); [V/µbar] .....	150 [480] kHz
Directionality .....	N/A

#### Environmental

Temperature Range .....	-65 to 125°C
Shock Limit .....	500 g
Completely shielded crystal for maximum RFI/EMI immunity	

#### Physical

Dimensions ....	0.313" diameter x .375" body height
.....	0.18 thread height with 6-32 thread
	(8 x 9.5 mm, 4.5 mm thread height with 6-32 thread)
Weight .....	3 grams (6 grams with cable & connector)
Case Material .....	Stainless Steel
Connector .....	BNC, SMA on Integral Cable
Connector Locations .....	..... Top Exit Coax, .05" diameter and 8" long
Seal .....	Epoxy

### Ordering Information and Accessories

HD15 .....	HD15
Preamplifier .....	0/2/4, 2/4/6
Preamp to System Cable (specify length in meters) .....	1234 - X
Amplifier Subsystems .....	AE2A or AE5A

#### Sensors include

NIST Calibration Certificate & Warranty



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