



Score Dunegan®

ACOUSTIC EMISSION PRODUCTS



Score Dunegan DE-1000-R

Differential Wideband AE Sensor

DE-1000 is a true differential wideband sensor.

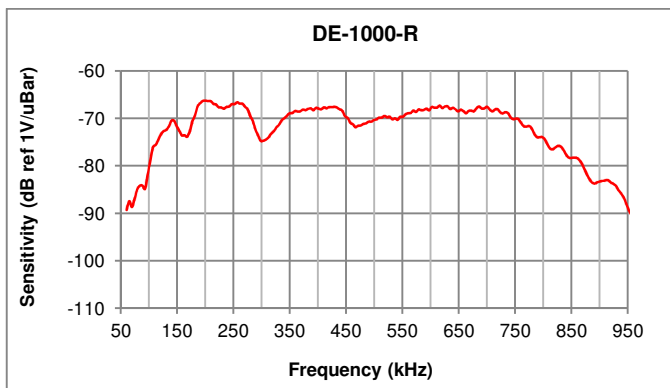
The sensor has high sensitivity and good frequency response over the bandwidth of 100 - 900 kHz. These sensors are ideal for applications requiring low noise and high bandwidth for frequency analysis of the AE signals, for noise discrimination and source identification. This sensor features a rugged steel construction, a BNC connector or a low loss cable exiting from the side of the sensor.

Applications

This sensor is well suited for structural health monitoring of large structures like storage tanks, pipelines, etc. Wideband sensors are particularly useful for research applications where a high fidelity AE response is required. It can be easily mounted.

SPECIFICATIONS:

Aperture size:	Diameter 0.675" (12.4 mm)
Element case isolation:	>20 dB (element to case)
Case Material:	Stainless steel
Physical Dimensions	Diameter: 1.140" (28.8 mm) Height: 1.125" (31.7 mm)
Weight:	55 grams
Temperature:	-50 to + 125 °C
Grounding:	Case isolated with integral ceramic wear plate
Humidity:	Waterproof for short periods
Connector:	Twin axial BNC
Calibration:	Traceable ultrasonic calibration curve provided
Sensitivity:	See attached calibration curve



Typical DE-1000-R Calibration Curve



Score Atlanta Inc.

www.score-group.com

Tel: + 1 770 428 4874

Fax: + 1 770 428 4845

www.score-atlanta.com