

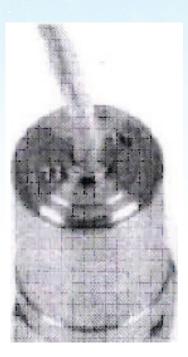
**Interest Exploratory Note** 

## **Piezo-Electric Vibration Sensor (PEVS)**

Piezo-Electric Vibratio n Sensor with in-built Electronics (PEVS) integrates piezoelectr ic crystals with electronics - a Charge-to Voltage Converter with Buffer. It has a simple integration process and provides millivolts output proportional to the - applied acceleration.

## **Specifications**

Parameter	Specification	Remarks
Voltage Senstivity	25 mV/g	·.
Range	±l 00g	
Frequency range	20Hz to 2000Hz	
Mounted resonance	> 12 KHz	
Frequency flatness	±3%	upto 2kHz
Non -linearity	< ±0.5%	
Lower Frequency cut-off	< 5 Hz	
Power Supply	$\pm 5$ V, 5mA or $\pm 15$ V, 5mA	
Electrical interface	Pigtail wires	4-core , Twisted Shielded, 28AWG
Weight	36grams	1-metre pigtail



## Salient features

- Built-in electronic s, eliminates external signal conditioning
- Ease of integration

Department of Space has authorised NSIL for Technology Transfer of Piezo-Electric Vibration Sensor (PEVS) to suitable entrepreneurs/ Industry in India. Interested Parties may please fill the enclosed form and send by email to contact-nsil@isro.gov.in