

Piezo-Electric Vibration Sensor (PEVS)

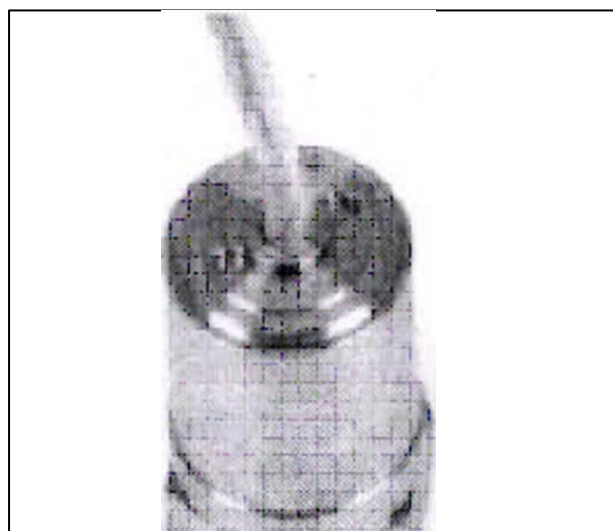
Piezo-Electric Vibration Sensor with in-built Electronics (PEVS) integrates piezoelectric crystals with electronics - a Charge-to Voltage Converter with Buffer. It has a simple integration process and provides millivolts output proportional to the - applied acceleration.

Specifications

Parameter	Specification	Remarks
Voltage Sensitivity	25 mV/g	.
Range	$\pm 100g$	
Frequency range	20Hz to 2000Hz	
Mounted resonance	> 12 KHz	
Frequency flatness	$\pm 3\%$	upto 2kHz
Non -linearity	< $\pm 0.5\%$	
Lower Frequency cut-off	< 5 Hz	
Power Supply	$\pm 5V, 5mA$ or $\pm 15V, 5mA$	
Electrical interface	Pigtail wires	4-core, Twisted Shielded, 28AWG
Weight	36grams	1-metre pigtail

Salient features

- Built-in electronics, eliminates external signal conditioning
- Ease of integration



Technology Transfer from ISRO

ISRO is willing to offer the knowhow of this technology to suitable entrepreneurs / industries in India. Capable manufacturing industries interested in acquiring this knowhow may write with details of their present activities, requirements and plans for implementation, infrastructure and technical expertise available with them, their own market assessment, if any, and plans for diversification to the address given below: