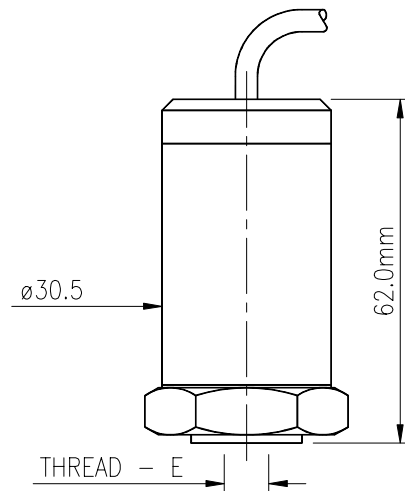




PZV2 SERIES VELOMETER



- LOW COST
- LIGHT INDUSTRIAL
- INTERNAL AMPLIFIER
- STAINLESS STEEL HERMETICALLY SEALED DUAL CASE
- FREQUENCY RANGE 2.5Hz TO 6KHz
- INTERNALLY SHIELDED
- ELECTRICAL AND THERMAL ISOLATION
- FULLY SCREENED

The PZV2 velometer is intended to satisfy the general specification requirements for a low cost vibration transducer for use in multi-point industrial vibration monitoring applications and is suitable for use with any modern monitoring system, fixed or portable.

The two-wire ICP operating principle permits very long interconnecting cables to be used where necessary and at minimum expense since standard screened pair (or multi-pair) cables may be used.

The piezo-electric sensor and amplifier are contained within an inner metal enclosure, which is electrically and thermally insulated from the outer stainless steel body. The arrangement prevents earth loops, eliminating electrical interference, and minimises thermal shocks and base strain. The inner enclosure is connected to the 0V of the two wire system and is therefore an effective electrical screen, making the unit particularly suitable for use in electrical field environments, e.g. on electrical motors and generators. External connections are made via a top exit integral cable or electrical connectors.

DS1107

PZV2 ACCELEROMETER

SPECIFICATION

Operating Voltage/current	18 to 28 volts D. C. constant current source of 3.5 to 10mA
Dynamic Range	Up to 200g peak (at 24Vdc input)
Frequency Range	5Hz to 3.5KHz (better than 1dB) 2.5Hz to 6KHz (better than 3dB)
Transverse sensitivity	5%
Amplitude linearity	5%
Temperature sensitivity	5% over the temp range
Residual electrical noise	10-4 mm/sec (10Hz)
Signal transmission	Two-wire system, electrically isolated from body up to 500Vac Three wire & connector variants, contact Sensonics for details
Weight.....	250 g (nominal)

Environmental

Acceleration limit:	Vibration	200g
	Shock	500g
Temperature:	Operation	-30°C to +100°C (BNC connector version -30 to +80°C)
	Survival	-55°C to +150°C (short periods)
		NB. Certain types of connector or cables may limit the temperature performance of the transducer, see IS. Sheet for details.
Protection (BS.EN60529).....		Sealed to IP.66 / IP.67

ORDERING INFORMATION

PZV2 -

A	B	C	D	E	F	0
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A Electrical Configuration

2

 - 2 wire ICP device

D Output & Frequency band

1

 4mV/mm/s ± 5%

B Connection Method

6

A

 Integral Cable (80°C) Unarmoured

6

B

 Integral Cable (80°C) Armoured

6

C

 Integral Cable (140°C) Unarmoured

6

D

 Integral Cable (140°C) Armoured

7

A

 Integral Cable/Waterproof Gland (80°C)
Unarmoured (IP68 Option)

C Cable length (Specify in whole metres)

0

2

 e.g. = 2 metres (max 25 metres)

E Mounting Thread (Female)

1

 - ¼ UNF

2

 - M6

3

 - M8

4

 - Quick Release

F Hazardous Area Approval

0

 - Non Intrinsic

1

 - Intrinsically Safe option Not available