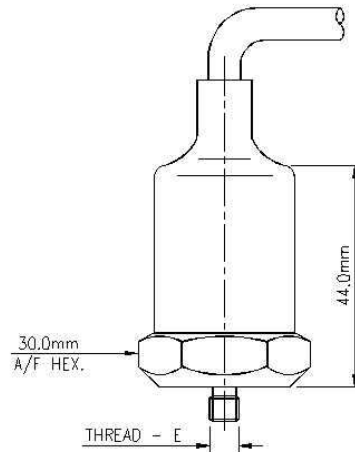


## PZV1 SERIES VELOMETER



- DIRECT VELOCITY VIBRATION OUTPUT
- LIGHT INDUSTRIAL
- INTERNAL AMPLIFIER
- STAINLESS STEEL HERMETICALLY SEALED CASE
- FREQUENCY RANGE 2.5Hz TO 6KHz
- INTERNALLY SHIELDED
- ELECTRICALLY ISOLATED CASE
- FULLY SCREENED

The PZV1 velometer is intended to satisfy the general specification requirements for a low cost vibration transducer for use in multi-point experimental or industrial vibration monitoring applications and is suitable for use with any modern monitoring system, fixed or portable.

The two-wire current-loop 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 internal electronics are fully screened within a metal body. The instrument is electrically isolated from its base thus preventing earth loops and eliminating electrical interference. External connections are made via a top exit integral cable unarmoured or armoured, length to be confirmed in metres.

# PZV1 VELOMETER

## SPECIFICATION

Operating Voltage/current .....	18 to 28 volts D. C. constant current source of 3.5 to 10mA
Sensitivity .....	4mV/mm/s
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 <sup>-4</sup> mm/sec (10Hz)
Signal transmission .....	Two wire, ICP type system, electrically isolated from base up to 500Vac
Weight.....	200 gms (nominal)

## **Environmental**

Acceleration limit:	Vibration .....	200g
	Shock .....	500g
Temperature:	Operation .....	-25°C to + 80°C
	Survival.....	-55°C to + 100°C (short periods)
Protection (BS.EN60529).....		Sealed to IP.66/IP.67

## ORDERING INFORMATION

PZV1 - 

A	B	C	D	E	F
2					0

### **A Electrical Configuration**

2
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 - 2 wire ICP type device

### **D Output & Frequency band**

1
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 4mV/mm/s ± 5%

### **B Connection Method**

6	A
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 Integral Cable (80°C) Unarmoured

6	B
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 Integral Cable (80°C) Armoured

### **E Mounting Thread (Male)**

1
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 - ¼ UNF

2
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 - M6

3
---

 - M8

4
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 - Quick Release

### **C Cable length** (Specify in whole metres)

0	2
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 e.g. = 2 metres (max 25 metres)

### **F Hazardous Area Approval**

0
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 - Non Intrinsic

DS1106



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