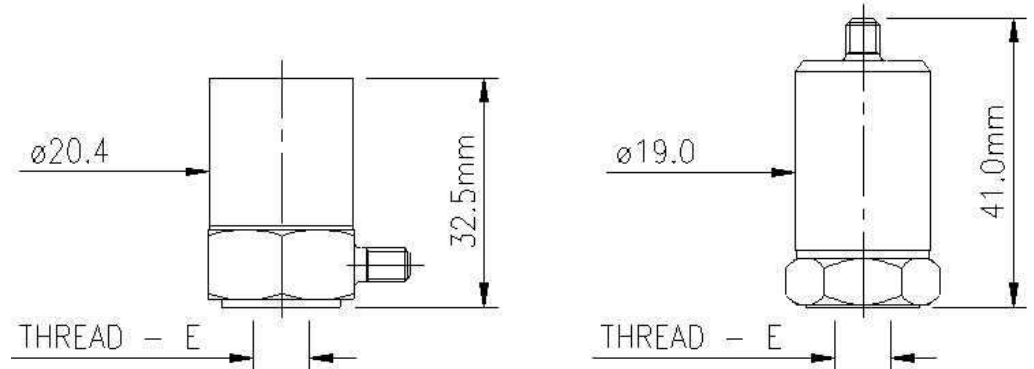




## PZP2 ACCELEROMETER



- GENERAL PURPOSE
- 100pc/g OUTPUT
- 200°C OPERATION
- STAINLESS STEEL HERMETICALLY SEALED CASE
- FREQUENCY RANGE 2.0Hz TO 9KHz
- RADIATION RESISTANT OPTION

The PZP2 transducer is of conventional piezo-electrical principal and has a high signal output and high temperature capability. It is intended for use as a vibration detector in conjunction with an external impedance matching or charge amplifier.

The piezo-electric sensor is contained within a robust, sealed, stainless steel case having a solid base with single hole fixing. The top of the accelerometer is fitted with a stainless steel Microdot connector for the single output. The sensitive axis of the transducer is coincident with the longitudinal axis of the cylindrical body form.

The robust construction of the accelerometer makes it particularly useful as a general purpose or light industrial transducer for use in applications requiring a high signal output and/or a high temperature operating ability.

The PZP2 transducer range has been developed for use in nuclear environments and avoids the use of materials which are unsuitable for high radiation environments.

# PZP2 ACCELEROMETER

## SPECIFICATION

Charge Sensitivity (G) .....100pC/g ±10% (others available)  
 Cross axis Sensitivity .....Less than 4%  
 Dynamic Range.....Up to 300g peak  
 Frequency Range .....3Hz to 11KHz (better than 3dB)  
 Resonant frequency .....23KHz  
 Amplitude linearity .....+/- 1% or better  
 Transducer capacitance (Ct) .....1000pf  
 Cable capacitance (Cc) .....30pf/ft (typ.)

NB. Voltage Sensitivity =  $\frac{G}{Ct + Cc}$

Insulation Resistance (at 20°C) .....30G.ohms  
 Operating temperature .....-40°C to +200°C  
 Survival temperature .....-40°C to +250°C  
 Temperature coefficient of charge sensitivity .....0.08% per °C @ 200°C  
 Temperature coefficient of voltage sensitivity .....0.07% per °C @ 200°C  
 Radiation resistance .....1 x 10<sup>9</sup> RADS GAMMA  
 Weight.....72 gms (nominal)

## **Environmental**

Protection (BS.EN60529).....Sealed to IP.66/IP.67

## ORDERING INFORMATION

PZP2 - 

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
1				0

### A Electrical Configuration

- 2 wire, non-isolated direct charge o/p

### B Connection Method

Top exit, Microdot co-axial connector, 10/32UNF

Side exit, Microdot co-axial connector, 10/32UNF

### D Mounting Thread (Female)

- ¼ UNF

- M5

- M6

- 2BA

### E Hazardous Area Approval

- Non Intrinsic

### C Output & Frequency band (3dB point)

100pC/g ±10% @ 80Hz

90pC/g ±10% @ 80Hz

DS1102



**Sensonics Ltd**  
 Northbridge Road  
 Berkhamsted  
 Herts, HP4 1EF  
 United Kingdom  
 Tel: +44 (0)1442 876833  
 Fax: +44 (0)1442 876477  
[www.sensonics.co.uk](http://www.sensonics.co.uk)