

This series of pressure transducers have been designed as a simple low cost device to monitor pressure difference between a high and a low pressure. For example across filters, through boilers etc. These transducers can be used to measure flow using orifice plates, pitot tubes etc (see pages 21-23 for suitable digital displays with square root output). CE marked models are fully certified in accordance with EN 50081 & EN 50082.

Features

- Hall Effect (magnetic) Sensor
- Differential pressure ranges up to 25 bar
- 0 -10V dc or 4 - 20 mA output
- Supplied with a plug & socket
- Weight 1.2 Kg



TYPE 4312

Ranges

250 mbar
400 mbar
1 bar
2 bar
4 bar
7 bar
10 bar
25 bar

1 bar vacuum

Max. line pressure 90 bar
intermediate ranges available

TYPE 4412

Ranges

25 mbar
50 mbar
100 mbar
160 mbar

Max. line pressure 34 bar
intermediate ranges available

TYPE 4512

Ranges

10 mbar
20 mbar

Max. line pressure 10 bar
intermediate ranges available

The units can be calibrated to intermediate ranges but the accuracy will relate to the appropriate sensor range shown above.

Accuracy

Linearity & Hysteresis
combined $\pm 2\%$ of range

Materials of construction

Pressure Connection	Brass
Diaphragm	Beryllium Copper
Seal	Nitrile rubber
Cover	Anodised Aluminium

Alternative wetted parts

Pressure Connection	316 Stainless steel
Diaphragm	17/7 ph Stainless steel
Seal	according to fluid

Part No. Suffixes

CEA	4 - 20 mA output (CE marked).
CEB	0 - 10 V dc output (CE marked).

Ordering Information - Example

Type	4412A Differential Pressure Transducer.
Range	50 mbar differential pressure.
Line Pressure	20 bar.
Connection	1/8" bspp female.
Fluid	For use on water.

General Specification

Calibration

Gain (span) and offset (zero) adjustment of approx. $\pm 5\%$ of range is provided under cover.

Temperature Effects

Typically $\pm 0.14\%$ per $^{\circ}\text{C}$ between $15\text{--}30^{\circ}\text{C}$. Calibrated at 20°C .

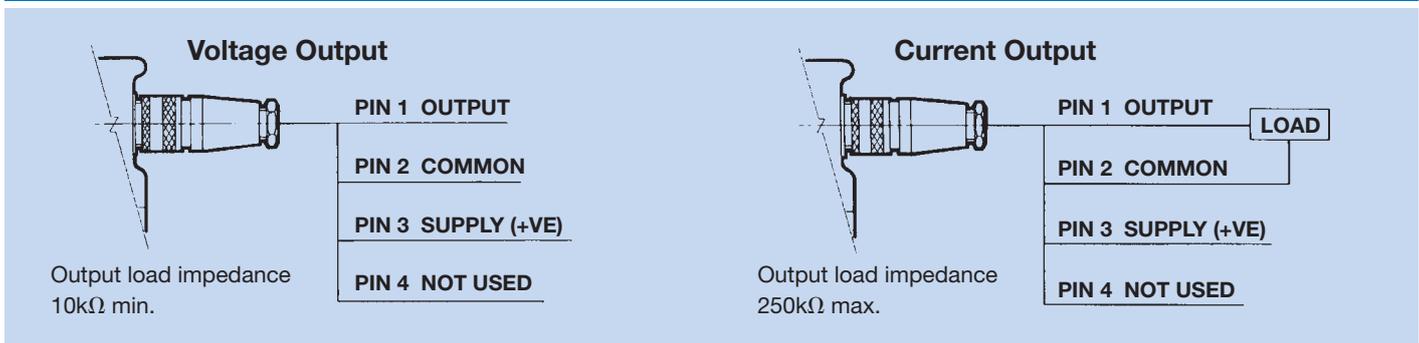
Maintenance

No maintenance is required on these transducers. On critical applications, periodic checks of offset at zero pressure, with slight adjustment, if necessary, will maintain optimum performance.

Overpressure

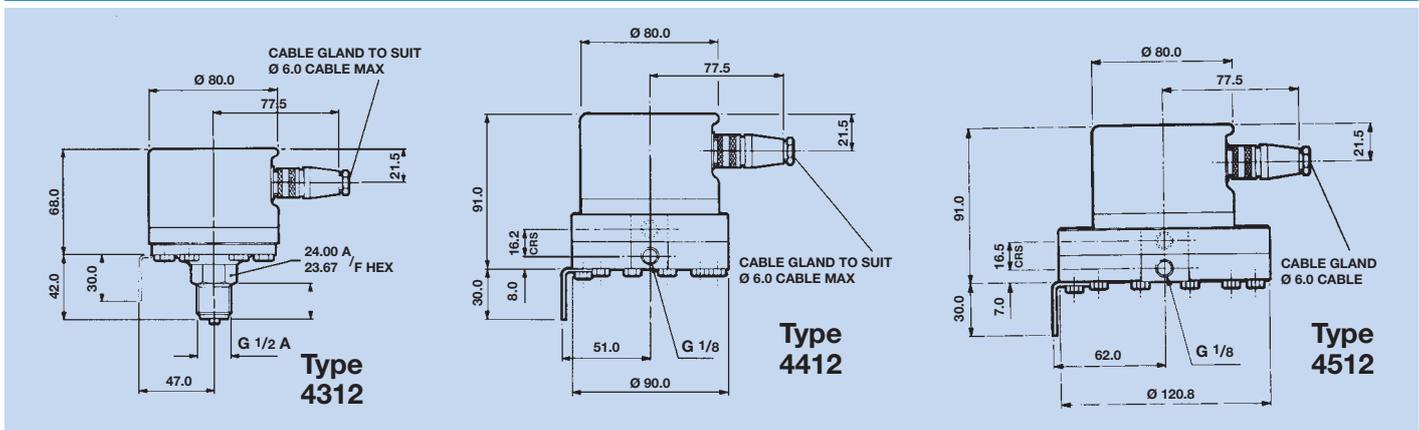
All ranges will accept range plus 10%

TYPICAL WIRING DIAGRAMS



NOTE It is important that the connections are made correctly. Reverse voltage application will damage the transducer.

DIMENSIONS



Optional Addition to Series 4000 Transducers

All Hall Effect Pressure Transducers can be fitted with a digital display in the lid.

Features

- 3 1/2 digit 10 mm high LCD display
- 4-20 mA or 0-10V dc output
- Offset & Gain adjustment through cover
- Scaled in any pressure units

When ordering state 'Fitted with LCD display' after the pressure transducer specification.

