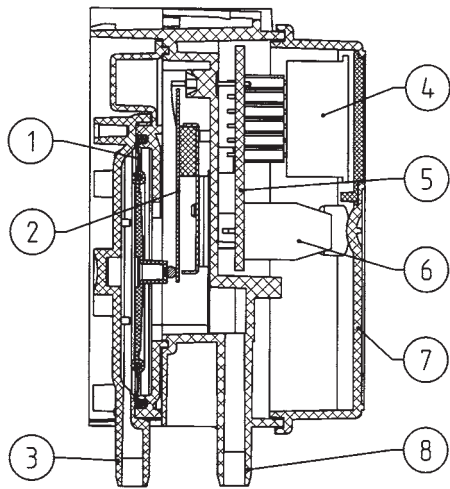


HUBA**694 Series Differential Pressure Transmitter**

2-Wire, 4-20 mA output, F.S. Ranges $\pm 0.2''$ w.c. to $4.0''$ w.c.

DESCRIPTION

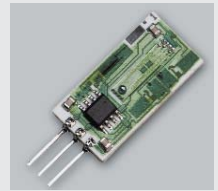
Type 694 series differential pressure transmitters incorporate a proven diaphragm driven ceramic fulcrum lever technology. They deliver calibrated, temperature-compensated sensor signals, available as standard 4-20 mA current output. They are ideal for registering low static pressures and air flow in air conditioning systems and for the measurement of pressure relationships in environmental, laboratory and clean-room applications.



- 1) Diaphragm
- 2) Ceramic sensor element
- 3) P1 higher pressure/lower vacuum
- 4) Optional Display
- 5) Amplifier electronics
- 6) Connection terminals
- 7) Cover
- 8) P2 lower pressure/higher vacuum



Ceramic sensor element with piezoresistors in a Wheatstone Bridge configuration and built in signal conditioning offers outstanding performance and long term stability.

**SPECIFICATIONS**

Pressure ranges: See order code selection table.

Max Pressure: See order code selection table.

Burst pressure: 500 mbar(7.25 PSI)

Accuracy Calculation: Terminal point method

Accuracy Including Linearity, Hysteresis &

Repeatability:

F.S. Ranges ± 0.2 and $0.4''$ w.c.- $< \pm 2\%$ f.s.

F.S. Ranges above $0.4''$ w.c.- $< \pm 1\%$ f.s.

Case Construction: Polycarbonate Lexan 141R, Fire classification to UL94

Cover: ABS Plastic

Diaphragm: Two-component silicone LSR

Operating Temperature: 0°C to $+70^{\circ}\text{C}$

Storage Temperature -10 to $+70^{\circ}\text{C}$

Effect of Temperature on Zero: $< \pm 0.04\%$ fs/ $^{\circ}\text{C}^*$

Effect of Temperature on Span: $< \pm 0.02\%$ fs/ $^{\circ}\text{C}^*$

*For Ranges to $0.4''$ w.c., multiply values x 2.5

Response time < 10 ms

Resolution: Ranges to $0.4''$ w.c.: $< 0.2\%$ fs

Ranges above $0.4''$ w.c.: $< 0.1\%$ fs

Pressure connections: $3/16''$ I.D. Tubing

Weight: 90 grams

Installation Orientation: Vertical (factory calibrated)

Power Supply: 12-33 Vdc

Short circuit proof and protected against polarity reversal.

Load Impedance: 1100 Ohms Max

Electromagnetic compatibility: CE conformity to EC directive 89/336 EEC (EMC) by application of harmonized standards IEC 61000-6-3 and EN 61000-6-2.

Electrical Connection: Screw terminals for wire and stranded conductors up to 16 gage .

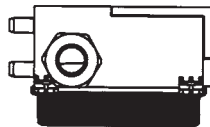
Cable gland with built-in strain relief Pg 11 Thread ($1/2''$ NPT adaptor for conduit connection optional)

Enclosure Rating: IP 54 (NEMA 3, 3S & 13)

Factory Calibrated for Vertical installation with pressure ports down



Horizontal installation with cover down,



Horizontal installation with cover up, reading approx. $0.04''$ w.c. lower



DIMENSIONS (MM) & ELECTRICAL

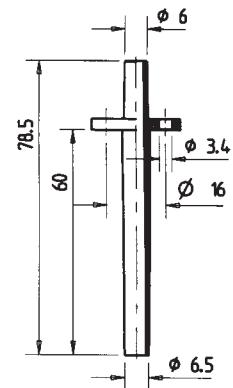
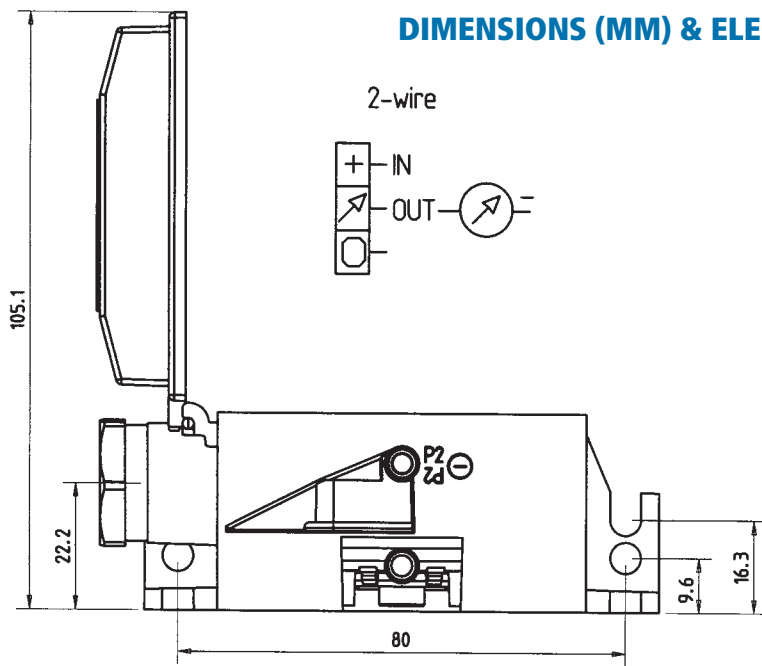
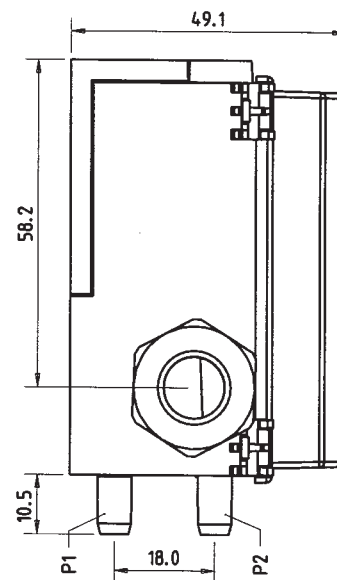
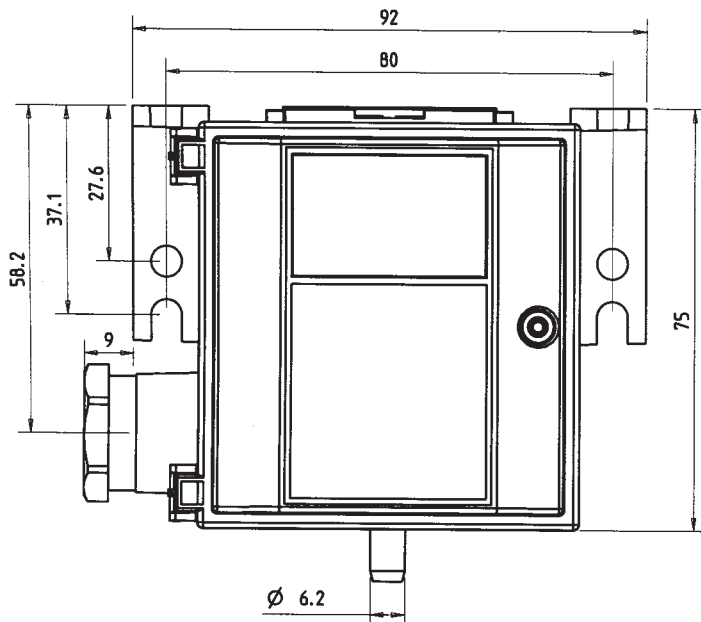


Fig. 1
Plastic Duct Mount
Static Probe



ORDERING INFORMATION

| Model | Range | Max Pressure |
|---------------|--------------------|------------------|
| 694.931115010 | ±0.2 inches w.c. | 20.0 inches w.c. |
| 694.911115010 | 0-0.4 inches w.c. | 20 inches w.c. |
| 694.912115010 | 0-1.20 inches w.c. | 20 inches w.c. |
| 694.913115010 | 0-2.0 inches w.c. | 40 inches w.c. |
| 694.914115010 | 0-4.0 inches w.c. | 40 inches w.c. |

Accessories & Options:

Higher Ranges: Consult Factory

Integral Digital Display: Consult Factory

Voltage Output: Consult Factory

Square Root Extraction: Consult Factory

104262: Plastic Static Pressure Probe (See Figure 1 Above)

100064: Connection set including two static probes,

A0012: 1/2" NPT Adapter to replace strain relief connector with conduit

Order Items Typically Ship From Stock

ASK US ABOUT OUR....

WET TO WET TRANSMITTERS & SWITCHES

