

154BC

SPECIFICATIONS

- **Low Cost**
- **316L Stainless Steel or Titanium**
- **19mm Diameter Package**
- **0 - 100mV Output**
- **Gage and Absolute**
- **Wide Compensated Temperature Range**

The 154BC is a 19mm small profile, media compatible, piezoresistive silicon pressure sensor packaged in a 316L stainless steel or ASTM Grade 2 CP titanium housing. The 154BC is a low-cost unit designed without a header for O-ring mounting and OEM applications where compatibility with corrosive media is required. The titanium option offers greater resistance to corrosive materials and harsh cleaning chemicals, opening the range of its application use to things such as dialysis machines and salt/brackish water measurements.

The sensing package utilizes silicone oil to transfer pressure from either a 316L stainless steel or titanium diaphragm to the sensing element. A ceramic substrate is attached to the package that contains laser-trimmed resistors for temperature compensation and offset correction. An additional laser-trimmed resistor is included which can be used to adjust an external differential amplifier and provide span interchangeability to within $\pm 1\%$.

Please refer to the 154N uncompensated and constant voltage datasheets for more information on different features of the 154.

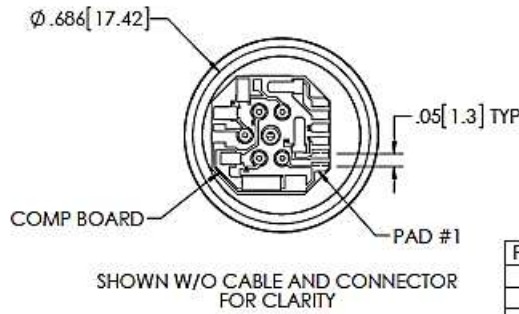
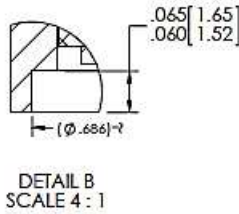
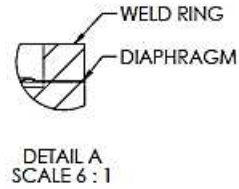
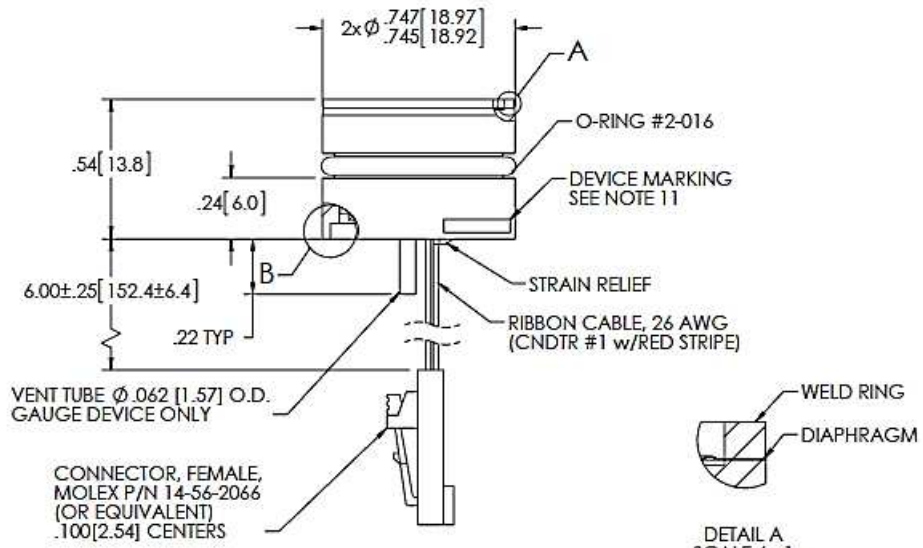
FEATURES

- O-Ring Mount
- -20°C to $+85^{\circ}\text{C}$ Compensated Temperature
- 1.0% Interchangeable Span (provided by gain set resistor)
- Solid State Reliability
- $\pm 0.3\%$ Pressure Non Linearity
- Titanium Option

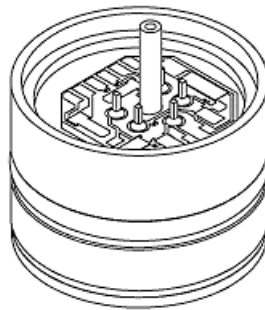
APPLICATIONS

- Medical Instruments (Dialysis Machines)
- Process Control
- Fresh, Waste, Salt and Brackish Water Measurements
- Refrigeration/Compressors
- Pressure Transmitters
- Hydraulic Controls

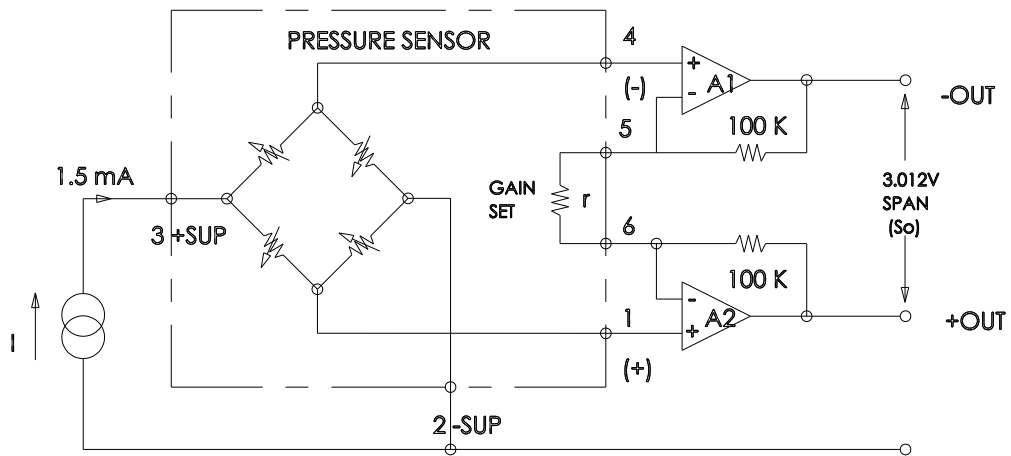
STANDARD RANGES



PAD #	FUNCTION
1	+OUT
2	-EX
3	+EX
4	-OUT
5	GAIN
6	



APPLICATION SCHEMATIC



ORDERING INFORMATION

154BC – S – 300PG R

Material	
S	316L Stainless Steel
T	ASTM Grade 2 CP Ti

Electrical	
P	Solder Pads
R	Ribbon cable
C	Cable w/ Connector

Pressure Range [psi]	
015PG	007BA
030PG	012BA
050PG	018BA
100PG	028BA
300PG	

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