SPECIFICATION CHARACTERISTICS (Maximum Ratings for All Devices)

Supply current, I_S	1.5 mA
Compensated temperature range	0 °C to 50 °C [32 °F to 122 °F]
Operating temperature range	-40 °C to 85 °C [-40 °F to 185 °F]
Storage temperature range	-55 °C to 125 °C [-67 °F to 257 °F]
Humidity	0 % to 100 % RH
Lead temperature	250 °C [482 °F] Soldering 2 sec to 4 sec
Common-mode pressure	150 psi

PERFORMANCE CHARACTERISTICS (Individual Models) I_s=1.0 mA, T_A=25 °C [77 °F][1]

Part Number	Operating Pressure Range	Maximum Over Pressure	Accuracy[2]	Effect[3, 4] on Span 0 °C to 50 °C	Effect[5, 4] on Offset 0 °C to 50 °C	Full-Scale Span[6] mV
SCC05(D,G)	0 psid to 5 psid (g)	20 psi	0.50 %	1.50 %	30 µV/°C	25-65
SCC15A	0 psia to 15 psia	30 psia	0.50 %	1.50 %	40 µV/°C	40-95
SCC15(D,G)	0 psid to 15 psid (g)	30 psi	0.50 %	1.50 %	40 µV/°C	40-95
SCC30(D,G)	0 psid to 30 psid (g)	60 psi	0.50 %	1.50 %	60 µV/°C	60-150
SCC100A	0 psia to 100 psia	150 psia	0.50 %	1.50 %	30 µV/°C	85-225
SCC100(D,G)[7]	0 psig to 100 psig	150 psig	0.50 %	1.50 %	90 µV/°C	85-225
SCC300A	0 psia to 300 psia	450 psia	0.50 %	1.50 %	50 µV/°C	50-120

PERFORMANCE SPECIFICATIONS (All Models) I_s=10.0 Ma, T_a=25 °C [77 °F]

	Min.	Typ.	Max.	Unit
Zero Pressure Offset[8]	-30.0	-10.0	20.0	mV
Combined Linearity, Hysteresis and Repeatability[2]	–	0.25	0.50	% FSO
Long Term Stability of Offset and Span[9]	–	0.10	–	mV
Response Time (10 % to 90 %)[10]	–	0.10	–	ms
Input Impedance	4.00	5.00	6.50	kOhm
Output Impedance	4.00	5.00	6.50	kOhm

Specification Notes:

Note 1: Reference Conditions; Supply Current = 1.0 mA; TA = 25 °C [77 °F], Common-mode Line Pressure = 0 psig, Pressure Applied to P1, unless otherwise noted.

Note 2: Accuracy is the sum of Hysteresis and Linearity. Hysteresis is the maximum output difference at any point within the operating pressure range for increasing and decreasing pressure. Linearity refers to the best straight line fit as measured for the offset, full-scale and ½ full-scale pressure at 25 °C [77 °F].

Note 3: This is the maximum temperature shift for span when measured between 0 °C and 50 °C [32 °F to 122 °F] relative to the 25 °C [77 °F] reading. Typical temperature coefficients for span and resistance are -2200 ppm/°C and 2200 ppm/°C respectively.

Note 4: Temperature effect on span and offset are guaranteed by design. Therefore these parameters are not 100 % tested.

Note 5: This is the maximum temperature shift for offset when measured at 0 °C and 50 °C [32 °F to 122 °F] divided by the temperature difference.

Note 6: Span is the algebraic difference between the output voltage at full-scale pressure and the ouput at zero pressure.

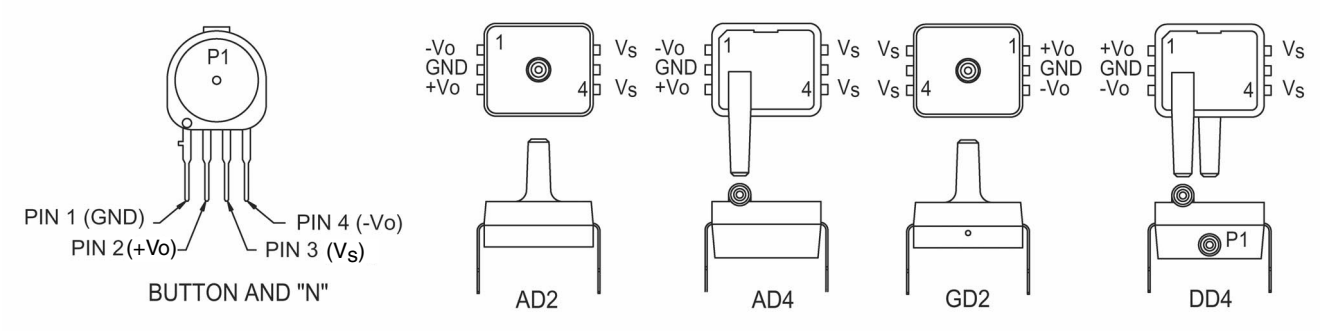
Note 7: The SCC100D devices can only be used in a forward gauge mode. Application of more than 30 psig to the back side of any of the SCC Series devices can result in device failure. On the SCC100GD2 pressure can only be applied to the back side of the die. No pressure I accessible from the front/top side of die.

Note 8: The zero pressure offset is 30 to -20 mV max. form parts SCCxxxGD2 and SCCxxDD4 devices.

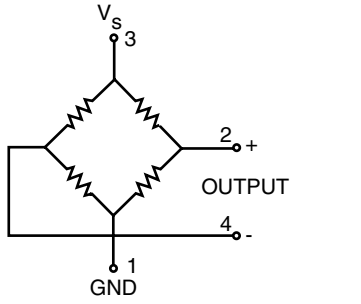
Note 9: Maximum difference in output at any pressure with the operating pressure range and temperature within 0 °C and 50 °C [32 °F to 122 °F].
a) 100 temperature cycles, 0 °C and 50 °C [32 °F to 122 °F]
b) 1.0 million pressure cycles, 0 psi to full-scale span.

Note 10: Response time for a 0 psi to full-scale span pressure step change. 10 % to 90 % rise time.

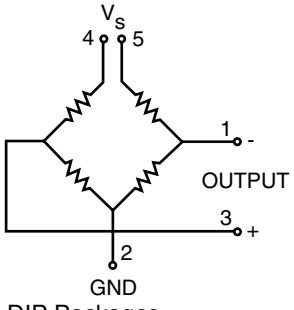
ELECTRICAL CONNECTIONS



EQUIVALENT CIRCUITS



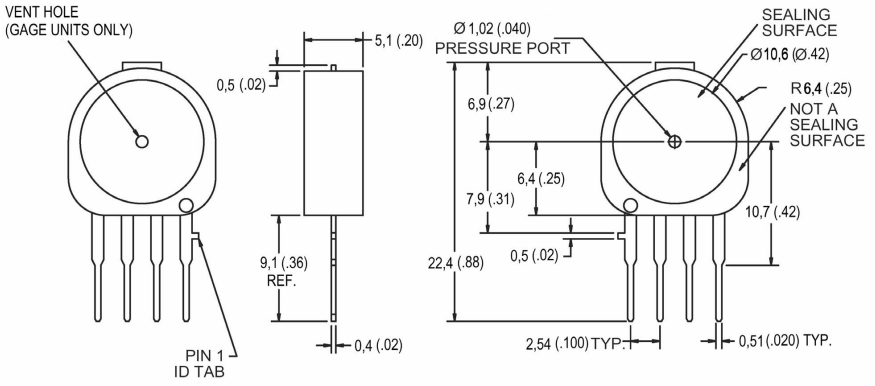
Button, Nipple and “N” Packages



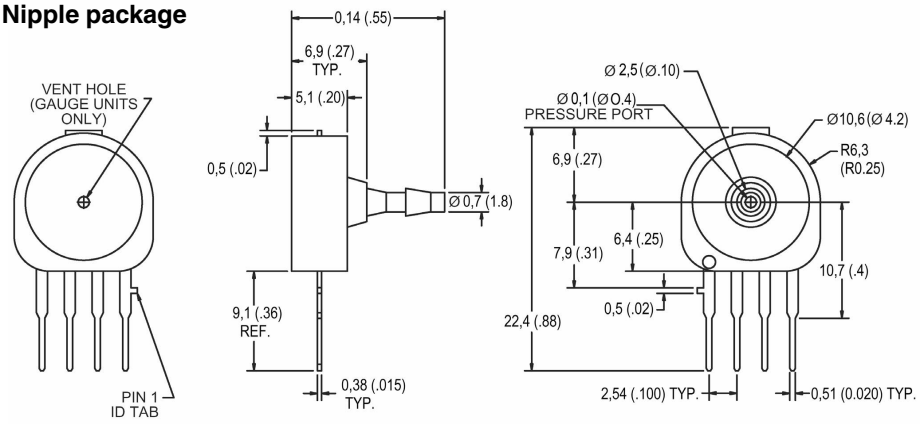
DIP Packages

MOUNTING DIMENSIONS IN MM (INCHES), FOR REFERENCE ONLY

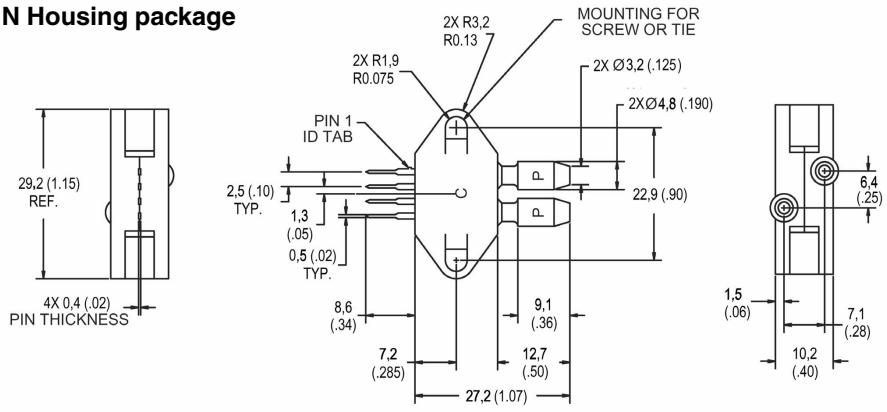
Button package



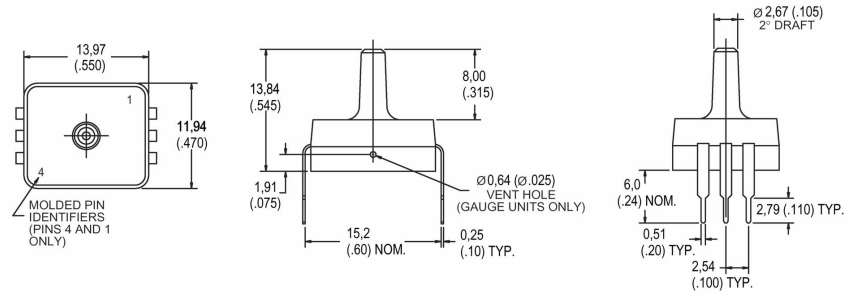
Nipple package



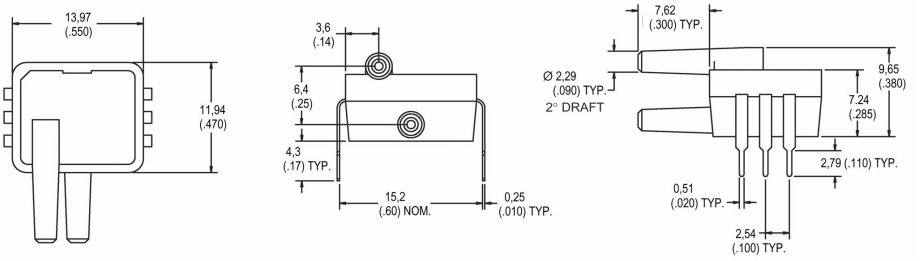
N Housing package



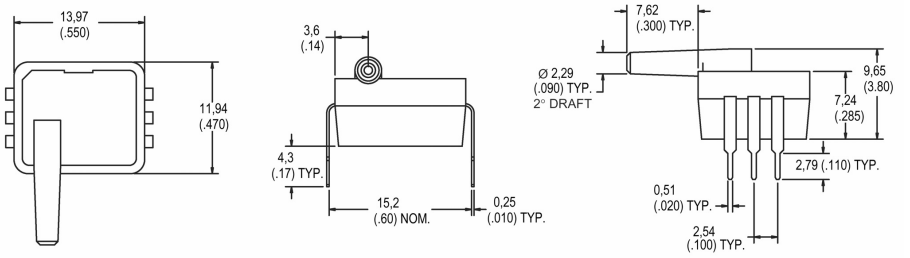
D2 DIP package



DD4 DIP package



AD4 DIP package



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