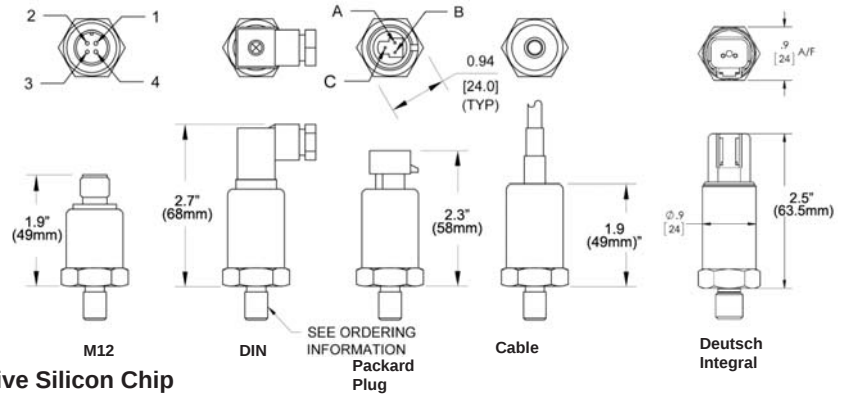




Sensing Element: Piezoresistive Silicon Chip

Wiring Data Information

DIN Connector PIN Function (- 81)					Cable Connector WIRE Function (- 81)					Deutsch 2 Pin Wiring (- 80)			
Signal Output	Pin 1	Pin 2	Pin 3	Pin 4	Signal Output	RED	GREEN	YELLOW	BLACK	Signal Output	Pin 1	Pin 2	
mA	Supply V+	Output	N/A	N/A	mA	Supply V+	Output	N/A	N/A	mA	Supply V+	Output	
V	Supply V+	Common	Output	N/A	V	Supply V+	Common	Output	N/A	V	N/A	N/A	
M12 PIN Function (- 80)					Packard Plug PIN/WIRE Function (-80)					Deutsch 3 Pin Wiring (- 81)			
Signal Output	Pin 1	Pin 2	Pin 3	Pin 4	Signal Output	PIN A	PIN B	PIN C		Signal Output	Pin A	Pin B	Pin C
mA	Supply V+	Output	N/A	N/A	mA	Supply V+	Output	N/A		mA	N/A	N/A	N/A
V	Supply V+	Output	Common	N/A	V	Supply V+	Output	Common		V	V+	Common	Output

The **STC** pressure transducers offer Piezoresistive silicon chip, MEMS technology, Long Term Stability, Stainless Steel Compact design, ideal for the industrial environment. The transducers are widely used in air compressors, air conditioning and refrigeration equipment, automotive and hydraulic control.

ELECTRICAL:

Output:
4 - 20mA (2 wire)
0 - 5V,
0 - 10V
1 - 5V
0.5 - 4.5V (ratiometric)

Supply:
9 -35 vdc (2wire)
12 -35 vdc (3 wire)
12 -35 vdc (3 wire)
12 -35 vdc (3 wire)
5 vdc (3 wire)

ACCURACY:

Including Linearity, Hysteresis and Repeatability: $\pm 0.5\%$ (Full Scan)

PROTECTION:

IP65 with DIN
IP67 with Packard Plug, Cable, M12X1, Integral Deutsch

MECHANICAL LIFE:

1 million cycles

OPERATING TEMPERATURE:

-40° to 257°F (-40° to 125°C)

COMPENSATION TEMP:

14° to 158°F (-10° to 70°C)

STORAGE TEMPERATURE:

-40° to 257°F (-40° to 125°C)

ZERO TEMP. COEFFICIENT:

$\pm 1.5\%$ Full Scan max
-4° to 185°F (-20° to 85°C)

SPAN TEMP. COEFFICIENT:

$\pm 1.5\%$ Full Scan max
-4° to 185°F (-20° to 85°C)

PRESSURE RANGE:

-14.5 - 8700 PSI (-1 - 600 Bar) (Gauge Pressure) Consult factory for higher pressure. Caution: Please specify if application has high pressure fluctuation, a pulse snubber should be added against cavitation and liquid hammer

OVERLOAD PRESSURE:

3x Full Scan ≤ 10 PSI, 2x Full Scan ≤ 6000 PSI
1.3x Full Scan @ 8700 psi

MATERIAL:

Body: 304 Stainless Steel
Sensing Element: Piezoresistive Silicon Chip

RESPONSE TIME:

<1 millisecond

ORDERING INFORMATION

STC	- A	- 0/3000	- 4M	- HCM	- 80 *
Model	Type	Pressure Range	Port Size	Terminal	Pin Out
STC	A: 4 - 20mA (2 wire) B: 0 - 5V (3 wire) C: 0 - 10V (3 wire) D: 0.5 - 4.5V (3 wire) E: 1 - 5V (3 wire)	Specify Pressure Range Required Note: Ranges Available -14.5/0 PSI (-1/0 BAR), 0/1.5 PSI(0.11 Bar), 0/6 PSI (0/0.4 Bar), 0/14.5 PSI (0/1 Bar), 0/100 PSI (0/7Bar), 0/600 PSI, (0/40 Bar), 0/1500 PSI (0/100 Bar), 0/3000 PSI, (0/200 Bar), 0/ 6000 PSI (0/400 Bar), 0/ 8700 PSI (0/600 Bar) Consult Factory for Other Ranges	2M- 1/8" NPT 4M - 1/4 NPT 4S - 7/16 x 20 SAE Male 4G - 1/4 BSPP (undercut for o-ring seal) 4GS- 1/4 BSPP (no undercut) M12 - M12 X 1.5 M14 - M14 X 1.5 Consult Factory for other sizes	PP - Packard Plug C - Cable (standard 3 ft long) M - M12X1 HCM - DIN 43650C Mini DIN DI - Deutsch Integral	See Above Wire Data Information * For other Electrical Pin Out options refer to page 37