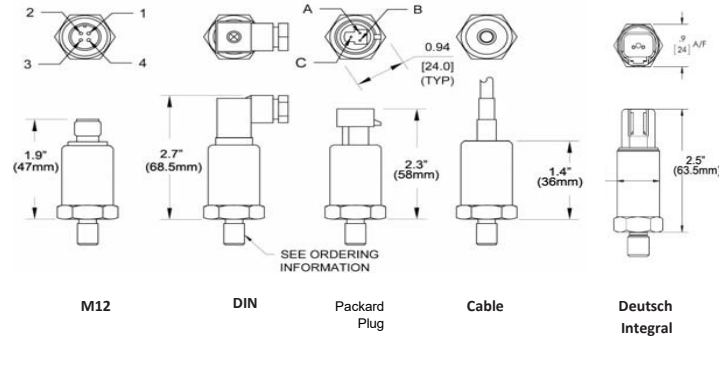


STC Pressure Transducer



Sensing Element: Piezoresistive Silicon Chip

Wiring Data Information													
DIN Connector PIN Function (- 81)					Cable Connector WIRE Function (- 81)					Deutch 2 Pin Wiring (- 80)			
Signal Output	Pin 1	Pin 2	Pin 3	Pin 4	Signal Output	RED	GREEN	YELLOW		Signal Output	Pin 1	Pin 2	
mA	Supply V+	Output	N/A	N/A	mA	Supply V+	Output	N/A		mA	Supply V+	Output	
V	Supply V+	Common	Output	N/A	V	Supply V+	Common	Output		V	N/A	N/A	
M12 PIN Function (- 81)					Packard Plug PIN/WIRE Function (-81)					Deutch 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+	Common	Output	N/A	V	Supply V+	Common	Output		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
be 1 - 5V
0.5 - 4.5V (ratio metric)

Supply:
9 - 36 vdc (2wire)
9 - 36 vdc (3 wire)
12 -30 vdc (3 wire)
9 - 36 vdc (3 wire)
5 vdc (3 wire)

ACCURACY:

± 0.5% (Full Scan)

HYSTERESIS & REPEATABILITY:

± 0.1% (Full Scan)

PROTECTION:

IP65 with DIN, M12X1, Packard Plug, Cable,
Integral Deutch

OPERATING TEMPERATURE:

-40° to 257°F (-40° to 125°C)

AMBIENT TEMPERATURE:

-4° to 185°F (-20° to 85°C)

STORAGE TEMPERATURE:

-40° to 257°F (-40° to 125°C)

TEMPERATURE DRIFT:

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

MECHANICAL LIFE:

1 million cycles

PRESSURE RANGE:

-14.5 - 14,500 PSI (-1 - 1000.Bar)
Consult factory for higher pressure.
Caution: Please specify if application has high pressure fluctuation, a pulse snubber should added against cavitation and liquid hammer.

OVERLOAD PRESSURE:

3x Full Scan ≤ 10PSI, 1.5x Full Scan ≤6000PSI
1.2x 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	- 81 *	- 5*
Model	Type	Pressure Range	Port Size	Terminal	Pin Out	Option
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 <i>Note: Ranges Available</i> -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, (0/40Bar) 0/1000 PSI 0/69 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), 0/ 14,500 PSI (0/1000 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) 6S - 9/16 X 18 SAE Male 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 36	*Omit if Standard 5 - Spiral Restrictor

