

Melt Pressure Transducers for Extrusion Processing

DESIGN SPECIFICATIONS

Mechanical

Ranges

PSIG	BAR	PSIG	BAR	PSIG	BAR
0-500	0-35	0-3000	0-200	0-10000	0-700
0-750	0-50	0-5000	0-350	0-15000	0-1000
0-1000	0-70	0-7500	0-500	0-20000	0-1400
0-1500	0-100				

Combined Error/Error Band $\pm 0.5\%$ or $\pm 0.25\%$ of full-scale

Repeatability $\pm 0.1\%$ of full-scale

Hysteresis 0.1% of full-scale

Overload Capability Up to 20,000 PSIG: 2 \times full-scale
Above 20,000 PSIG: 1.5 \times full-scale

Mounting Torque 500 inch-pounds maximum

Diaphragm Material 15-5PH stn. stl. (Armolyt plated)

Electrical

Measuring Element Strain gauge Wheatstone bridge

Element Resistance 350 ohm $\pm 10\%$

Supply Voltage for 3.33 mV/V output, 6-12VDC (10VDC rec.)
for 4-20mA output, 12-30VDC (24VDC rec.)
for VDC output, 15-30VDC (24VDC rec.)

Zero Balance $\pm 5.0\%$ full-scale output

Internal Resistance Cali. (Factory Adjusted) Produces precise electrical signal
which is 80% of full-scale within $\pm 0.25\%$

Temperature on Strain Gauge Housing

Maximum Temperature 160°F or 70°C

Zero Drift 1.0%/100°F or 2.0%/100°C

Sensitivity Drift 1.0%/100°F or 2.0%/100°C

Temperature on Diaphragm

Max. Temp. (medium) 750°F or 400°C

Zero Shift 25 PSI/100°F or 45 PSI/100°C

Thermocouple (if ordered)

Thermocouple Type Type J

Connector Standard Size Male



Note: All temperature specifications relate to full-scale output or full pressure range output.

Standard Drill Pattern Specifications

D1	D2		D3		D4		A		B		C	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
1/2 - 20 UNF	.313 \pm .001	7.95 \pm .025	.454 \pm .004	11.5 \pm .10	.515 min	13 min	.225 min	5.7 min	.17 max	4.3 max	.75	19
M14 x 1.5	.319 \pm .001	8.1 \pm .025	.478 \pm .004	12.1 \pm .10	.630 min	16 min	.24 min	6.1 min	.16 max	4 max	.75	19
M18 x 1.5	.398 \pm .01	10.1 \pm .25	.634 \pm .04	16.1 \pm 1.0	.79 min	20 min	.24 min	6.1 min	.16 max	4 max	.99	25

