

MT Series

Miniature Pressure Transmitter



Miniature Flush Diaphragm Pressure Sensor

Designed for the highest system integrity

Dylix's MT Series Pressure Transducer is designed for the OEM and end user where ruggedness, high performance, and reliability are required at a competitive price. Key feature of the MT is its non oil-filled sensing element. The sensing diaphragm is machined from a solid piece of steel, and can withstand the most abrasive / cyclical applications.

Manufactured for extended life cycle

Dylix's engineers developed this product to last in high cyclical environments with or without the presence of waterhammering or spiking. Advanced manufacturing techniques, extreme environmental burn-in and thorough residual stress relieving procedures ensure the MT Series maintains its performance over time.

Designed to meet IS standards

The MT Series is designed to meet or exceed the standards for IS. FM/CSA approvals are pending.

Dylix's Customer Service

Every MT Series is shipped within 2-3 Weeks ARO with a NIST traceable calibration certificate

Designed for high cycles



Shown with optional connector

Standard Features

- $\pm 0.5\%$ FSO Static Accuracy
- $\pm 0.25\%$ FSO/YR Stability
- < 0.5 mS Response Time

Available Options

- $\pm 0.25\%$ FSO Static Accuracy
- Alternate Wetted Materials

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Pressure Instruments*

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MT Series Pressure Transmitter



0-100 psi through 0-10k psi
 "Non-Filled" Miniature Flush Diaphragm Sensor

Product Specifications

Electrical

Excitation	
MT1	2-15 Vdc
MT2 &* MT3	8-38 Vdc*
Output	
MT1	1-2 mV/V*
MT2	0-5 Vdc*
MT3	4-20 mAdc
Zero Balance	$\leq \pm 1\%$ FSO
FSO Setting	$\leq \pm 1\%$ FSO
Resolution	Infinite ($\pm .001\%$ FSO usable)
Response Time	
MT1	< 0.1 mS
MT2 & MT3	< 1 mS
Insulation Resistance	1000 M Ω @ 50 Vdc
Warm-up	< 10 mS
Power Supply Effect	$\leq \pm 0.002\%$ FSO per V input (MT1 & MT2)
EMI/RFI	Internal Filtering (MT1 & MT2)
Short Circuit	Up to 40 Vdc

Mechanical

Pressure Ranges	0-100 through 0-10k psi (Customer may specify any range/eng. unit FOC)
Proof Pressure	1.5X Full Scale*
Burst Pressure	2X Full Scale*
Materials	
Wetted Parts*	316 & 15-5 SST*
Non-wetted Parts	316 SST plus electrical connector*
Pressure Port	7/16-20 UNF (M) Flush Mount
Electrical Connector	Bendix 6 pin
Dimensions	per outline below
Weight	nominal 2 oz

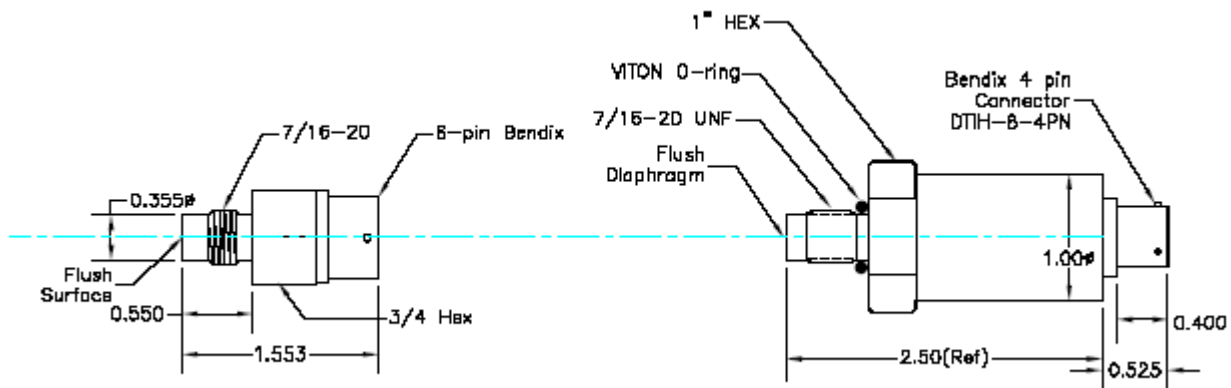
Environmental

Compensated Temp Range	0 to 170 °F
Operating Temp Range	-40 to 200 °F
Storage Temp Range	-40 to 250 °F

Performance

Static Accuracy	$\leq \pm 0.5\%$ FSO* (BFSL, RSS)* (combined effects of non-linearity, hysteresis, & repeatability)
Repeatability	$\leq \pm 0.15\%$ FSO
Temperature Effects	$\leq \pm 1.5\%$ FSO over comp range* (combined effects of zero & FSO with reference at 70 °F)
Long Term Stability	$\leq \pm 0.25\%$ FSO per year

*Options Available



Standard Wiring:

Model	Output	+Power	-Power	+ Signal	- Signal
MT1	mV/V dc 4 wire	Red/Pin 1/Pin A	Black/Pin 2/Pin B	Green/Pin 3/Pin C	White/Pin 4/Pin D
MT2	0-5 (10) Vdc 3 wire	Red/Pin 1/Pin A	Black/Pin 2/Pin B	Green/Pin 3/Pin C	+ Sig ref to - Power
MT3	4-20 mAdc 2 wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	

Dylix Corporation reserves the right to change specifications without prior notification. Please contact the factory for the latest revision.

Data Sheet MT-07 Rev A