

Miniature Pressure Transmitter MTM Series



Non-Oil Filled Miniature Flush Diaphragm Pressure Sensor

Design & Application - For The Highest System Integrity

Dylix's MTM Series Pressure Transducer is designed for the OEM and end user where ruggedness, high performance, and reliability are required at a competitive price.

Key features of the MTM are:

1. its non-oil filled sensing element
2. a sensing diaphragm machined from a solid piece of steel, to withstand the most abrasive/cyclical applications, in addition to water-hammer/spiking

Manufacturing & Quality - For Extended Life Cycle

Advanced manufacturing techniques, extreme environmental burn-in and thorough residual stress relieving procedures ensure the MTM Series maintains its performance over time.

Dylix's Customer Service

Each MTM series is delivered with a NIST traceable calibration certificate. Annual re-calibration and repair/refurbishment services are available.

Standard Features

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

Optional Features

- $\leq \pm 0.25\%$ FSO Static Accuracy
- Hastelloy Wetted Materials
- 4 or 6 pin Bendix Style Connector
- Intrinsically Safe

**Contact Dylix Sales for
Other Custom Applications...**
sales@dylixcorp.com • 716.773.2985

Specifications: MTM Series

Baseline Configuration Specs Represented.
Modifications Encouraged - See Below
Custom Designs Available

Pressure Transmitter

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

Electrical

Excitation

MTM1	2-15 Vdc
MTM2, MTM3, MTM7	9-38 Vdc*

Output

MTM1	1-2 mV/V*
MTM2	0-5 Vdc*
MTM3	4-20 mAdc
MTM7	4-20 mAdc Intrinsically Safe

Zero Balance

±1% FSO

FSO Setting

±1% FSO

Resolution

Infinite (± 0.001% FSO usable)

Response Time

MTM1	< 0.1 mS
MTM2, MTM3, MTM7	< 1 mS

Insulation Resistance

1,000 M Ω @ 50 Vdc

Warm-up

< 10 mS

Power Supply Effect

± 0.002% FSO per V input
(MTM2, MTM3, MTM7)

EMI/RFI

Internal Filtering ((MTM2, MTM3, MTM7)

Short Circuit Protected

40 Vdc (MTM2, MTM3, MTM7)

Mechanical

Pressure Ranges

0-100 through 0-10K psi
(Customer may specify any range/eng. unit)

Proof Pressure

1.5X Full Scale*

Burst Pressure

2X Full Scale*

Materials

Wetted Parts	316 & 17-4 ss*
Non-wetted Parts	316 ss plus electrical connector*

Pressure Port

7/16-20 UNF (M) Flush Mount*

Electrical Connector

Bayonet style 4 or 6 pin*

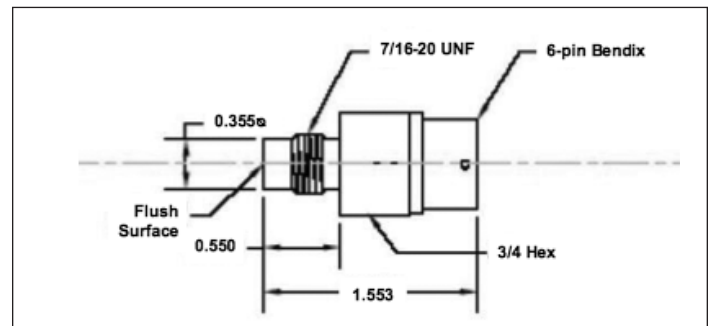
Dimensions

Per Drawing

Weight

2 oz (nominal)

Product Dimensions (inches)



Performance

Static Accuracy

±0.5% FSO* (BFSL, RSS)*
(Combined effects of non-linearity, hysteresis & repeatability)

Repeatability

±0.15% FSO

Temperature Effects

±1.5% FSO over comp range*
(Combined effects of Zero & FSO with reference at 70° F)

Long Term Stability

±0.25% FSO per year

Environmental

Compensated Temp Range

0° to 170° F

Operating Temp Range

-40° to 200° F

Storage Temp Range

-40° to 250° F

Certifications

CSA C/US Intrinsically Safe Class1 Div 1 Groups A,B,C,D T4

CSA C/US Intrinsically Safe Zone 0,1&2 A/Ex ia IIC T4 Ga

Entity Parameters

Vmax, Ui	32 Vdc
Imax, Ii	100 mA
Pmax, Pi	800 mW
Ci	0.055 μF
Li	0 mH

Standard Wiring

Model	Output	+ Power	- Power	+ Signal	- Signal
MTM1	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
MTM2	0-5 (10) Vdc 3 wire	Red/Pin 1/Pin A	Black/Pin 2/Pin B	Green/Pin 3/Pin C	Black/Pin 2/Pin B
MTM3	4-20 mAdc 2 wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	
MTM7	4-20 mAdc 2 wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	

*Options Available

Modifications and Warranty

MODIFICATIONS: Transducer/Transmitter applications vary greatly. As such our designs are flexible. Choices such as pressure ports, electrical termination, material compatibility, and performance are a few of the many options available. Specifications on this datasheet represent standard configuration only. Product and company names that may be listed are trademarks of their respective companies. Any and all specifications subject to change without notice.

WARRANTY: Dylux Corporation warrants that its product shall be free from defective workmanship and/or material for a twelve month period from the date of shipment, provided that Dylux Corporation's obligation shall be limited to correcting any defective material. FOB our factory. No allowance will be made for any expenses incurred for correcting any defective workmanship and/or material without written consent by Dylux Corporation. This warranty is in lieu of all other warranties expressed or implied.

Due to the nature of technology, changes are inevitable.
For latest technical specifications, see our website.



A US Designer and Manufacturer of
Pressure Transducers & Transmitters

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