



Wasco introduces TM a line of MEM's based pressure transducers and transmitters that cover a large spectrum of media types. Wasco's TM line of MEM's based transducers feature the latest state of the art backside etched line of sensors that eliminates the need for metal diaphragms and oil fill which traditionally drives up the cost to the customer. Wasco's TM offers superior accuracy and temperature performance over ceramic capacitive transducers at a price that is very competitive. The TM line measures from 15 psia to 1000 psi and are well suited for automotive, industrial, HVAC and commercial applications.

TM1 Series



TM1 Series

Performance Specifications

(all values at 22°C unless noted otherwise)

Output Type	0.5 to 4.5 Volts
Accuracy ¹ 0°C to 80°C -20°C to 125°C	< 1.00% FS < 1.50% FS
Stability (Typical)	< 0.25% FS / Year
Zero Pressure Offset ²	0.50 V
Full Scale Output (Output @ Pressure Range)	4.5 V
Operating Temperature	-40 to 125°C
Storage Temperature	-40 to 150°C
Proof Pressure	3 X FS
Burst Pressure	5 X FS

Electrical Specifications

Output Type	0.5 to 4.5 Volts
Supply Voltage	5 +/- 0.25
Supply Current	< 6 mA 8mA max
Output Current	0.45 mA Max (Sink or Source)
Response Time	< 5 ms

Reliability and Environmental Performance

	Value	Units
Pressure/Temperature Cycles ³	>10 Million	Cycles
Vibration	5g	33Hz
EMC Compatibility ⁴	50V/Meter	Volts
ESD Protection	+8 KV Contact +/-15 KV Contact	Discharge
Overvoltage Protection	16V	Volts
Reverse Polarity Protection	-16V	Volts
Drop Test	1M	Meter

¹Includes Hysteresis, repeatability, & non-linearity (BFSL)

²Transducer output @ 0 Psig

³Pressure cycling performed at rated full scale pressure.

⁴Higher levels of EMC Compatibility are available upon request.

Series	Pressure Range	Mechanical Fitting	Material	Connector																												
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