



5 VDC OUTPUT PRESSURE TRANSDUCER

ETM-375 (M) SERIES

- 5 VDC Output
- Hybrid Microelectronic Regulator-Amplifier
- Silicon on Silicon Integrated Sensor **VIS®**
- Flush Diaphragm
- All Welded Construction
- Secondary Containment On Absolute And Sealed Gage Units
- 3/8-24 UNJF or M10 X 1 Thread
- 4 Wire (ETM-375) 3 Wire (ETM-300-375)
- Intrinsically Safe Applications Available (i.e. IS-ETM-375)



ETM-375 series transducers are miniature, threaded flush diaphragm instruments. They utilize a flush metal diaphragm as a force collector. Force is transferred to a solid state piezoresistive sensing element via a thin intervening film of non-compressible silicone oil. This sensing sub-assembly is protected from mechanical damage by a solid screen

which has been shown to have minimal influence of the frequency response of the sensor. For applications where a true flush diaphragm is needed, Kulite will supply these transducers without the screen. Incorporation of a Kulite proprietary electronics module within the main body of this product allows for operation from an unregulated power supply of 12 ± 4 VDC or 28 ± 4 VDC. Standard output is a stable, low noise 0 to 5 VDC signal.

OPTIONAL CONNECTOR VERSION HERMETICALLY SEALED

4 WIRE PTH-8-4P CONNECTOR

PIN	DESIGNATION
A	+ INPUT
B	- INPUT
C	+ OUTPUT
D	- OUTPUT

3 WIRE

PIN	DESIGNATION
A	+ INPUT
B	COMMON
C	OUTPUT
D	SPARE

Labels: CABLE STRAIN RELIEF, 4 COND. # 30 AWG SHIELDED CABLE 36" (914) (NOM.), .17 (4.3), .83 (21.1) NOM., .32 (8.1), .43 (10.9), .17 (4.3) NOM., 5/8 HEX (15.9), .56 DIA. (14.2), .625 DIA. (15.9), O-RING 301 I.D. X .064 C.S. (7.6 I.D. X 1.6 C.S.), LOCKWIRE HOLES .040 DIA. (1.0) (2) PLC'S, "T", "B" SCREEN (STANDARD), "M" SCREEN (OPTIONAL)

4 WIRE WIRING

COLOR	DESIGNATION
RED	+ INPUT
BLACK	- INPUT
GREEN	+ OUTPUT
WHITE	- OUTPUT

3 WIRE WIRING

COLOR	DESIGNATION
RED	+ INPUT
BLACK	COMMON
GREEN	OUTPUT

CONSULT FACTORY FOR SPECS. ON SEALED GAGE

P/N	"T"
375	3/8-24 UNJF-3A
375M	M 10 x 1

	17 250	35 500	70 1000	170 2500	350 5000	700 10000	1400 BAR 20000 PSI
INPUT	Pressure Range						
	Operational Mode						
	Over Pressure						
	Burst Pressure						
	Pressure Media						
	Maximum Electrical Current						
	Rated Electrical Excitation						
	Full Scale Reading						
	Output Impedance						
	Bandwidth (-3dB)						
	Residual Unbalance						
	Combined Non-Linearity, Hysteresis and Repeatability						
	Resolution						
	Natural Frequency of Sensor Without Screen (KHz) (Typ.)						
	Acceleration Sensitivity % FS/g Perpendicular						
	Insulation Resistance						
ENVIRONMENTAL	Operating Temperature Range						
	Compensated Temperature Range						
	Thermal Zero Shift						
	Thermal Sensitivity Shift						
	Linear Vibration						
	Mechanical Shock						
PHYSICAL	Electrical Connection						
	Weight						
	Pressure Sensing Principle						
	Mounting Torque						

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (O) Continuous development and refinement of our products may result in specification changes without notice. Copyright © 2014 Kulite Semiconductor Products, Inc. All Rights Reserved. Kulite miniature pressure transducers are intended for use in test and research and development programs and are not necessarily designed to be used in production applications. For products designed to be used in production programs, please consult the factory.