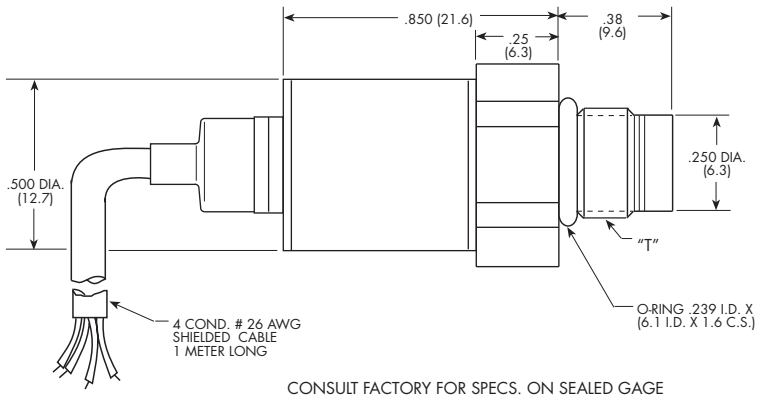
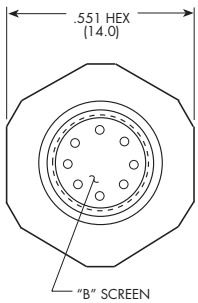
MICROPROCESSOR CORRECTED MINIATURE 5VDC OUTPUT IS® PRESSURE TRANSDUCER

ET-5DC-312(M) SERIES

- Barometric Pressure Transducer
- Robust Construction
- Microprocessor Corrected
- High Accuracy
- Silicon on Silicon Integrated Sensor **VIS**®
- Intrinsically Safe Applications Available (i.e. IS-ET-5DC-312)

The ET-5DC-312 series is designed to measure barometric pressure from ground level to 30,000 feet. The ET-5DC-312, is designed with Kulite's latest dielectrically isolated Patented sensing element, coupled with a microprocessor providing a digital compensation, analog output signal. The unit is ideally suited for applications where accuracy requirement is a prime importance.





WIRING	
COLOR	DESIGNATION
RED	+ INPUT
BLACK	- INPUT
GREEN	+ OUTPUT
WHITE	FACTORY USE ONLY

CONSULT FACTORY FOR SPECS. ON SEALED GAGE

P/N	"T"
312	5/16-24 UNF-2A
312M	M 8 x 1

INPUT Pressure Range	300 mBAR to 1100 mBAR	500 mBAR to 1100 mBAR	700 mBAR to 1100 mBAR
Operational Mode	Absolute		
Over Pressure	2 Times Rated Pressure		
Burst Pressure	3 Times Rated Pressure		
Pressure Media	All Nonconductive, Noncorrosive Liquids or Gases		
Maximum Electrical Current	25 ma (Max.)		
Rated Electrical Excitation	8 - 32 VDC		
OUTPUT Full Scale Output (FSO)	5 VDC		
Zero Unbalance (0 PSID)	0 VDC		
Output Impedance	50 Ohms (Typ.)		
Total Error Band	0.5% (Typ.) *(End Point Settings, Combined Non-Linearity, Hysteresis, Repeatability and All Thermal Effects Included)*		
Bandwidth (-3dB)	DC to 2500 Hz		
Resolution	Infinitesimal		
Insulation Resistance	100 Megohm Min. at 50 VDC		
ENVIRONMENTAL Operating Temperature Range	-40°F to +280°F (-40°C to +140°C) (Max.)		
Compensated Temperature Range	-40°F to +250°F (-40°C to +120°C)		
Linear Vibration	50g Peak, Sine 10 to 2000 Hz		
Altitude	-150 ft. to +70,000 ft. Will Not Damage Sensor		
Humidity	100% Relative Humidity		
Mechanical Shock	100g half Sine Wave 11 msec. Duration		
PHYSICAL Electrical Connection	4 Conductor Viton Cable 1 Meter Long		
Weight	20 Grams Excluding Cable		
Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon		
Torque	50 Inch-Pounds (Max.) 6Nm		

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters.
Continuous development and refinement of our products may result in specification changes without notice - all dimensions nominal. (I)

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