



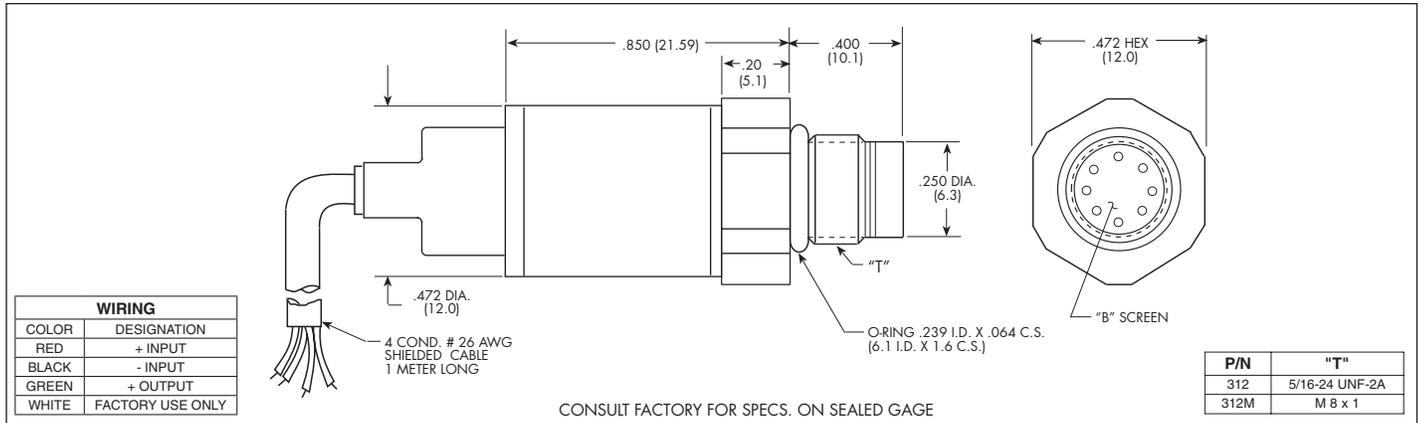
MICROPROCESSOR CORRECTED MINIATURE 5VDC OUTPUT IS® PRESSURE TRANSDUCER

ET-5DC-312(M) SERIES

- Barometric Pressure Transducer
- Robust Construction
- Microprocessor Corrected
- High Accuracy
- 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.



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.) <i>(End Point Settings, Combined Non-Linearity, Hysteresis, Repeatability and All Thermal Effects Included)</i>		
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	75 Inch-Pounds (Max.)		

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters.
 Continuous design pressure range for the ET-5DC-312 is 300 mbar to 1100 mbar. For more information, please contact us at <http://www.sensor-ic.com/> TEL: 0755-83376549 FAX: 0755-83376182 E-MAIL: szss20@163.com
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