

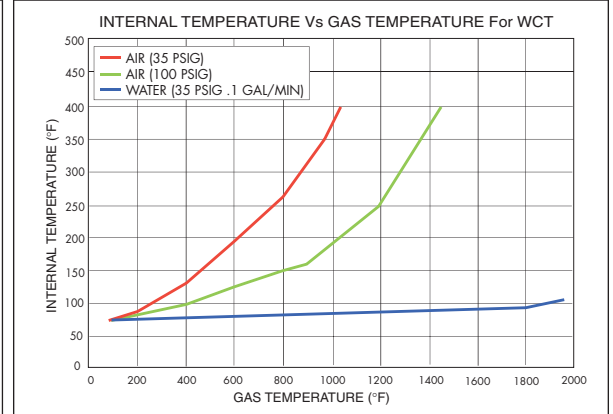
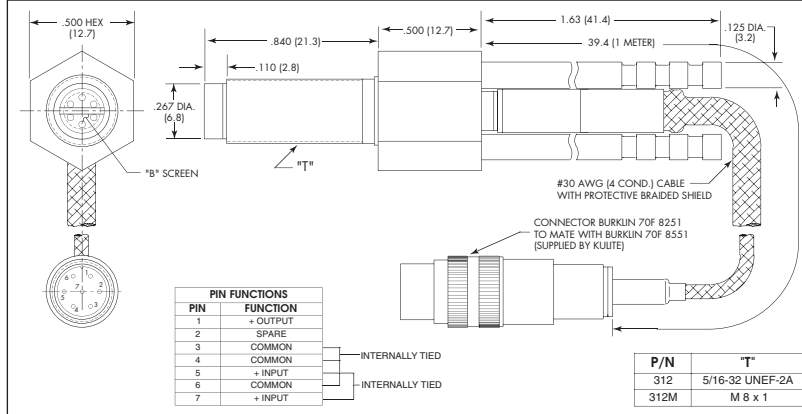
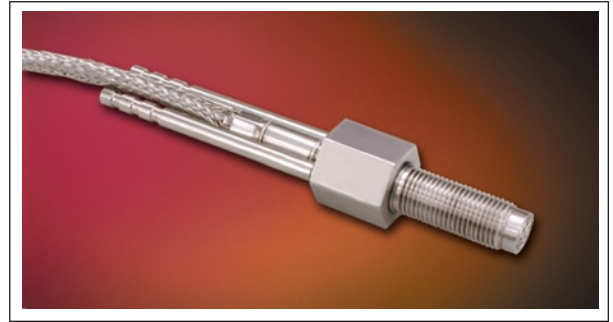


WATER/AIR COOLED IS® TRANSDUCER

EWCT-312 (M)

- High Bandwidth With Integrated Amplifier
- Patented Leadless Technology
- Superior Thermal Protection
- Both Dynamic and Static Output Capabilities Available
- Extreme Temperature Capabilities Such As Required In Exhaust Systems

Kulite introduces a new small and compact Water Cooled Pressure Transducer for both dynamic and static pressure measurements in extreme temperature environments such as automotive and turbine exhaust systems. The EWCT-312 combines Kulite's patented Low Cost Leadless Silicon Technology and a Miniature Water Cooled Jacket to provide pressure measurement capabilities previously unavailable.



INPUT	
Pressure Range	7 BAR / 100 PSI (Other Ranges Available Upon Request)
Operational Mode	Absolute, Sealed Gage
Over Pressure	2 Times Rated Pressure
Burst Pressure	3 Times Rated Pressure
Pressure Media	Compatible With Exhaust Gases and Fluids and Any Media Compatible With SiO ₂ And 15-5 PH Stainless Steel
Rated Electrical Excitation	12 ± 4 VDC
Maximum Electrical Excitation	24 ± 4 VDC
	28 VDC
OUTPUT	
Output Impedance	200 Ohms (Nom.)
Full Scale Output (FSO)	5 V
Bandwidth (- 3dB)	10 V ± 3%
Residual Unbalance	Greater Than 30 KHz
Combined Non-Linearity, Hysteresis and Repeatability	500mV ± 100mV
Resolution	± 0.1% FSO BFSL (Typ.) ± 0.5% FSO (Max.)
Natural Frequency (KHz) (Typ.)	Infinitesimal
Insulation Resistance	600
	100 Megohm (Min.) @ 50 VDC
ENVIRONMENTAL	
Water Flow Rate	.15 Gal/Min (Typ.)
Operating Temperature Range	75° F to 1300° F (24° C to 704° C) (Front End) -4° F to 185° F (-20° C to 85° C) (Connector and Amplifier)
Steady Acceleration	10,000g. (Max.)
Linear Vibration	10-2,000 Hz Sine, 100g. (Max.)
PHYSICAL	
Electrical Connection	7 Pin Connector and Mating Connector
Weight	50 Grams (Approx.) Excluding Cable amd Connector
Sensing Principle	Fully Active Four Arm Wheatstone Bridge Isolated Silicon on Silicon Patented Leadless Technology
Mounting Torque	80-120 Inch-Pounds (Max.)

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. (A)