

## MINIATURE RUGGEDIZED PRESSURE TRANSDUCER

## DTL-190 (M) SERIES

- Easy Installation
- Patented Leadless Technology VIS®
- Optimized Frequency Response

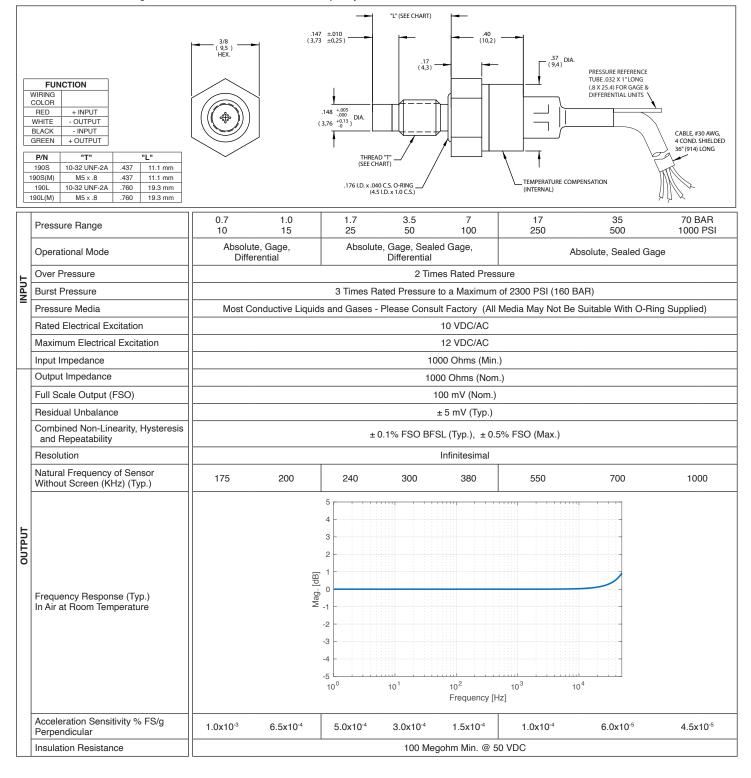
The DTL-190 transducer series features an optimized package design that maximizes the frequency response performance by minimizing the effects of acoustic resonance. This design holds the chip and protective screen to the tightest tolerances thereby achieving a flat frequency response of DC to 50+ kHz regardless of pressure range or packaging when properly installed. Kulite provides installation recommendations for all of its threaded probes, please refer to Figures 1(b) and 2(b) in this document; English, Metric.



The DTL-190 features Kulite's rugged leadless construction, capable of making static and high frequency dynamic pressure measurements in any media compatible with 316 SS, silicon, and silicon dioxide. The DTL-190 can be easily integrated into your test stand via the 10-32 or M5 threaded connection that is common to miniature transducers. With the inputs and outputs coupled to a Kulite KSC-2 signal conditioner, extremely low-noise and accurate static and dynamic pressure measurements are achieved. Optional 5th-wire temperature measurements for greater accuracy are also possible - please contact the factory for details.

Part performance not guaranteed if used in water.

Kulite recommends the KSC-2 signal conditioner to maximize the measurement capability of the DTL-190 transducer.



ENVIRONMENTAL	Operating Temperature Range	-65°F to +350°F (-55°C to +175°C)
	Compensated Temperature Range	+80°F to +180°F (+25°C to +80°C) Any 100°F Range Within The Operating Range on Request
	Thermal Zero Shift	± 1% FS/100°F (Typ.)
	Thermal Sensitivity Shift	± 1% /100°F (Typ.)
	Steady Acceleration	10,000g. (Max.)
	Linear Vibration	20g Peak, Sine 10 to 2000 Hz
PHYSICAL	Electrical Connection	4 Conductor 30 AWG Shielded Cable 36" Long
	Weight	4 Grams (Nom.) Excluding Cable
	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology
	Mounting Torque	15 Inch-Pounds (Max.) 1.7 Nm