HIGH TEMPERATURE MINIATURE RUGGEDIZED GAS TURBINE IS® PRESSURE TRANSDUCER WITH SEPARATE STATIC AND DYNAMIC OUTPUTS

ETL-GTS-190 (M) SERIES

- Miniature, Robust Construction
- High Temperature
- Acceleration & Vibration Insensitive
 Excellent Long Term Stability
- High Bandwidth Amplifier (150 KHz)
- Patented Leadless Technology

Separate DC and AC Outputs

Dynamic and Static Capability

Excellent Long Term Stability
 Coupled with High Accuracy

The ETL-GTS-190 is a high temperature extremely rugged transducer ideal for instability measurement in gas turbine engine environments. It uses a patented acceleration insensitive leadless sensing element that is more than 1000 times less sensitive to vibration than other Kulite transducers. The front of the transducer can withstand temperatures of 1025°F (550°C) while the in-line amplifier

can be placed in a cooler area. The amplifier is a special high frequency amplifier that allows the transducer to be used up to 150KHz.



		312 [7.9] HEX.	.140[3.6]
PIN	FUNCTIONS	l ⊠	TO MATE WITH BURKLIN 70F 8551
PIN	FUNCTION		(SUPPLIED BY KULITE)
1	VIN		
2	RTN		
3	OUT (DC/AC)	/// o ⁶ o₁////	
4	OUT (AC)	1	
5	SPARE	P/N "T" (1) 4 2	
6	SPARE	190 10-32 UNF-2A	
7	SPARE	190M M 5 x .8	

	PUT				
	essure Range				
Operational Mode					
_	ver Pressure				
Burst Pressure					
Pressure Media					
Rated Electrical Excitation					
Maximum Electrical Excitation					
_	UTPUT utput Impedance				
Fu	Il Scale Output (FSO)				
Ва	indwidth (-3dB)				
	ombined Non-Linearity, Hysteresis and Repeatability				
Re	esidual Unbalance				
Re	esolution				
Na	itural Frequency (KHz) (Typ.)				
Ins	sulation Resistance				
Re	esponse Time				
	NVIRONMENTAL perating Temperature Range				
Сс	ompensated Temperature Range				
Th	ermal Zero Shift				
Th	ermal Sensitivity Shift				
Lir	near Vibration				
Нι	ımidity				
Me	echanical Shock				
	HYSICAL ectrical Connection				
W	eight				
Se	ensing Principle				
М	ounting Torque				

	3.5 50	7 100	14 200	21 300	35 500	70 1000	140 2000	210 BAR 3000 PSI				
			200	Absolute, Sea			2000					
2 Times Rated Pressure												
3 Times Rated Pressure												
Any Media Compatible With 15-5 PH Stainless Steel and SiO ₂												
12 ± 4 VDC or 28 ± 4 VDC												
				32 m	4							
				200 Ohms	(Тур.)							
5V ± 3%												
			DC: DC to 1	50 KHz	AC: 50 l	Hz to 150KHz	<u>'</u>					
			± 0.1% F	SO BFSL (Typ.)	± 0.5% F	SO (Max.)						
				500mV ±	: 1%							
				Infinites	mal							
				Greater than	1000 KHz							
100 Megohm Min. at 50 VDC												
				<1 millis	sec							
		-65°		025° F (-55° C to +12								
			+80°	F to +840° F (+2	25° C to +4	150° C)						
				± 2% FS/100°	°C (Typ.)							
± 2% FS/100° C (Typ.)												
			5	0g Peak, Sine 1	0 to 2000	Hz						
				100% Relative	Humidity							
			100g	half Sine Wave	1 msec. D	uration						
		Bu	rklin 70F 82	51 Connector (M	lating Con	nector Suppli	ed)					
			10 Grams	(Nom.) Excluding	g Cable an	d Connector						
F	ully Active Four A	rm Wheatst	one Bridge	Dielectrically Iso	lated Silico	on on Silicon	Patented L	eadless Technology				
		·	15	Inch-Pounds (M	lax.) 1.7	N-m						
ical co	onfigurations availab	le Dimension	ns are in inche	s Dimensions in n	arenthesis a	re in millimeters						