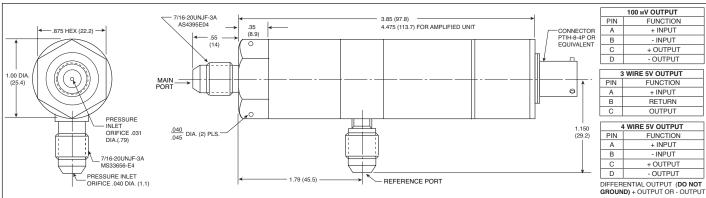


## AIRCRAFT DIFFERENTIAL PRESSURE TRANSDUCER

APT-51W-1000 Differential (100mV Output) APTE-51W-1000 Differential (5V Output)\*

- · High Natural Frequencies
- Unprecedented Stability And Reliability To High Temperatures (Ruggedized Internal Construction)
- Leakproof, All Welded Construction (No Leak After Exposure To 2000°F 1093°C)
- · Utmost In Safety (Secondary Containment Of Pressure Media)
- Fully Qualified (Passed Extensive Environmental Tests, RTCA/DO-160F)



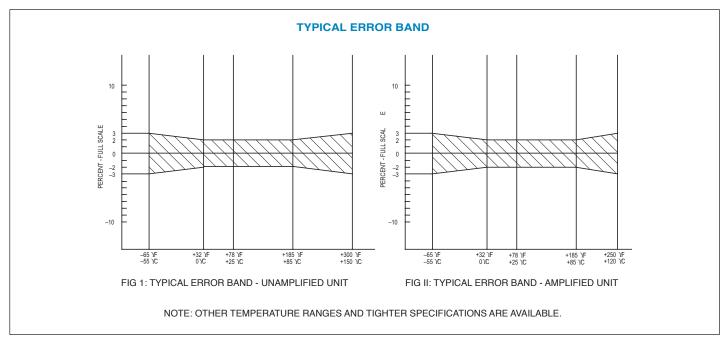


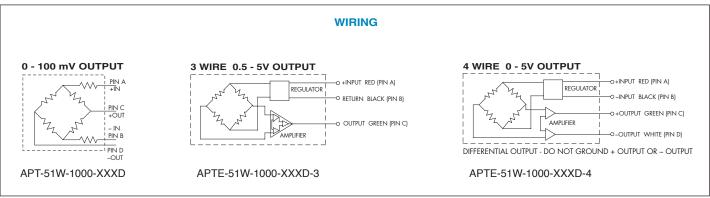
	100 MV OUTPUT					
CTOR 4P OR LENT	PIN	FUNCTION				
	Α	+ INPUT				
	В	- INPUT				
	С	+ OUTPUT				
	D	- OUTPUT				
A WIDE EV OUTDUT						
	3 WIRE 5V OUTPUT					
	PIN	FUNCTION				
	Α	+ INPUT				
	В	RETURN				
	С	OUTPUT				
.150	4 WIRE 5V OUTPUT					
29.2)	PIN	FUNCTION				
	Α	+ INPUT				
	В	- INPUT				
	С	+ OUTPUT				
*	D	- OUTPUT				

SPE	ECIFICATIONS
Pre	ssure Range
Exc	itation
Out	put
Pow	ver Consumption
Inpu	ıt Impedance
Out	put Impedance
Орє	erating Temperature Range
Wei	ght
Cas	e Outline
Cor	struction Materials
Line	e Pressure
Pro	of Pressure
Bur	st Pressure
Insu	lation Resistance
Μοι	unting Torque
Tota	al Error Band
Res	olution
MT	BF
Flui	d Temperature
	rage Temperature Range Ion Operating)
Altit	ude-Operating
Med	dia Compatability
Hun	nidity
Acc	eleration
Vibr	ation
Med	chanical Shock
Elec	ctromagnetic Interference
Elec	ctrical Spike Protection

UNAMPLIFIED APT-SERIES		AMPLIFIED APTE SERIES			
1.7	3.5	7 100	17 BAR		
25	25 50		250 PSI		
10VDC Regulated		28VDC ± 4V			
100mV (Typ.)		5VDC Diff. or Single Ended			
100mW (Typ.)		280mW (Typ.)			
1000 Ohms (Min.)		N/A			
2000 Ohms (Max.)		100 Ohms (Max.)			
-65°F to +300°F (-55°C to +150°C)		-65°F to +250°F (-55°C to +120°C)			
0.45 Lb. (	Max.)	0.6 Lb. (N	flax.)		
Case Length May Vary With Range, Measuring Mode, Pressure Port and Connector					
316 SS And 17-4 PH SS					
4 Times Rated Pressure					
2 Times Rated Pressure Range					
5 Times Rated Pressure Range					
100 Megohms Min. @ 50VDC					
75 Inch-Pounds (Max.)					
± 2% FSO From 32°F (0°C) to 185°F (85°C), Increasing to ± 3% FSO at -65°F (-55°C) and +250°F (120°C), The APT Maintains ± 3% FSO to 300°F (150°C)					
Infinitesimal					
At Least 30,000 Hours					
-65°F to +300°F (-55°C to +150°C)					
-65°F to +185°F (-55°C to +85°C)					
Up To 51,000 Feet					
JP-4 and JP-5 Grade Aviation Turbine Fuel Per MIL-T-5624, Hydraulic Fluid Per MIL-H-5606, MIL-H-83282, Engine and Transmission Lubrication Oil Per MIL-L-7808 and MIL-L-23699 and Aviation Gasoline Per MIL-G-5572 All Grades					
100% Relative Humidity					
Operational After Being Subjected to "G" Levels of 12 "G"s Per MIL-STD-810C, Method 513.2 Procedure 1					
RTCA/DO-160F, Sec 8, Cat R, D & D1 Random Vibration Curves					
RTCA/DO-160F, Sec 7, Cat B, 20g, 11 msec sawtooth shock					
APTE SERIES: Meets RTCA DO-160 Sections 18, 19 and 21 All Cat. A, Section 20 Cat. U. (With Shielded Cable)					
APTE SERIES: Unit Satisfies Power Input and Voltage Spike Conducted DO-160 Sections 16 and 17.  Power Input Test 16 Voltage Spike Conducted Test 17					

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (G) Continuous development and refinement of our products may result in specification changes without notice. Copyright © 2014 Kulite Semiconductor Products, Inc. All Rights Reserved.





## \* Ordering Information

3 Wire:

APTE-51W-1000-XXXD-3

4 Wire:

APTE-51W-1000-XXXD-4

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (G) Continuous development and refinement of our products may result in specification changes without notice. Copyright © 2014 Kulite Semiconductor Products, Inc. All Rights Reserved.