

AIRCRAFT DIFFERENTIAL PRESSURE TRANSDUCER

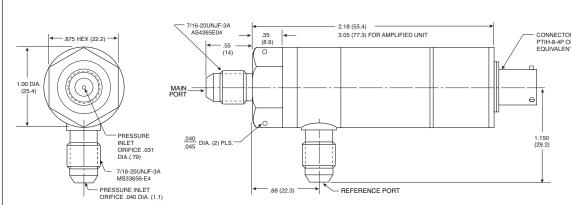
APT-51HL-1000 Differential (100mV Output) APTE-51HL-1000 Differential (5V Output)*

- · Developed For Use With High Line Pressure Compared To Low Differential Pressure
- Ideal For Measuring Pressure Drop Across Air Filters To Monitor Filter Clogging •
- Commonly Used For Measuring Across Venturi Pressure Drops
- High Natural Frequencies

- · 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)
- Unprecedented Stability And Reliability To High Temperatures (Ruggedized Internal Construction)



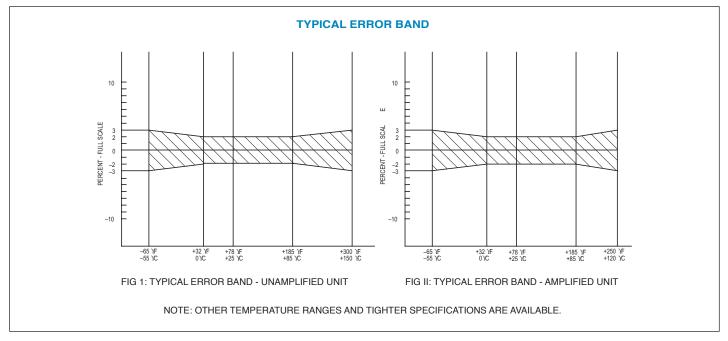


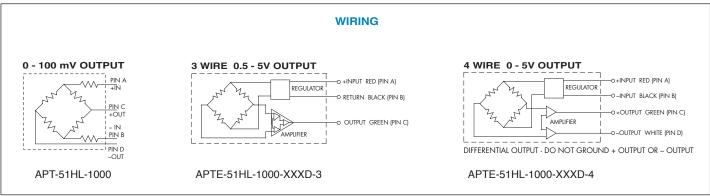
	100 MV OUTPUT				
PIN	FUNCTION				
Α	+ INPUT				
В	- INPUT				
С	+ OUTPUT				
D	- OUTPUT				
3 WIRE 5V OUTPUT					
PIN	FUNCTION				
Α	+ INPUT				
В	RETURN				
С	OUTPUT				
	4 WIRE 5V OUTPUT				
PIN	4 WIRE 5V OUTPUT FUNCTION				
PIN	FUNCTION				
PIN A	FUNCTION + INPUT				
PIN A B	FUNCTION + INPUT - INPUT				

SPECIFICATIONS	
Pressure Range	
Excitation	
Output	
Power Consumption	
Input Impedance	
Output Impedance	
Operating Temperature Ran	ge
Weight	
Case Outline	
Construction Materials	
Line Pressure	
Proof Pressure (Delta)	
Burst Pressure (Delta)	
Insulation Resistance	
Mounting Torque	
Total Error Band	
Resolution	
MTBF	
Fluid Temperature	
Storage Temperature Range (Non Operating))
Altitude-Operating	
Media Compatibility	
Humidity	
Acceleration	
Vibration	
Mechanical Shock	
Electromagnetic Interference	е

UNAMPLIFIED APT-SERIES			AMPLIFIED APTE SERIES			
.7 10	1.7 25	3.5 50	7 100	17 BAR 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°	-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. (Max.)			
Case Length May Vary With Range, Measuring Mode, Pressure Port and Connector						
316 SS And 17-4 PH SS						
	10 Times Rated Pressure, 2000 PSI Max. (138 Bar)					
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					
Main Port: Clean Dry Gas Reference Port: Clean Dry Gas						
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)						

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (H) 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-51HL-1000-XXXD-3

4 Wire:

APTE-51HL-1000-XXXD-4