

## CRAFT DIFFERENTIAL PRESSURE TRANSDUCER

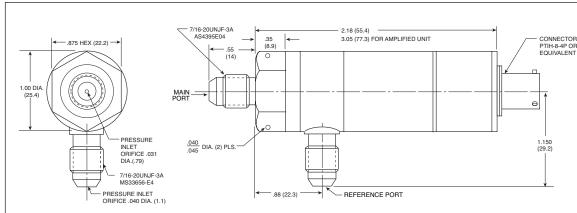
APT-51HL-1000 Differential (100mV Output) APTE-51HL-1000 Differential (5V Output)\*

- · 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)



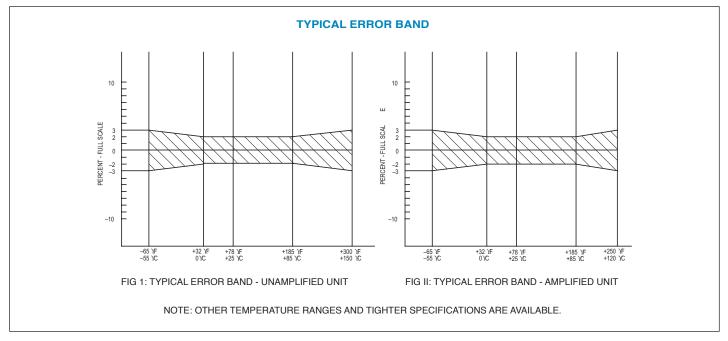


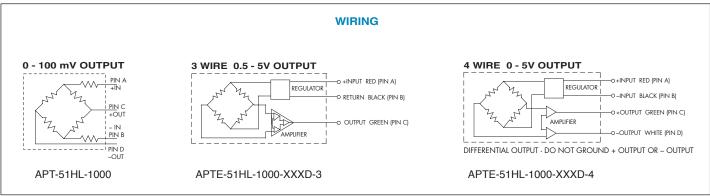
100 MV OUTPUT					
PIN FUNCTION					
A + INPUT					
B - INPUT					
C + OUTPUT					
D - OUTPUT					
3 WIRE 5V OUTPUT					
PIN FUNCTION					
A + INPUT					
B RETURN					
C OUTPUT					
4 WIRE 5V OUTPUT					
PIN FUNCTION					
A + INPUT					
B - INPUT					
C + OUTPUT					
D - OUTPUT					
DIFFERENTIAL OUTPUT ( <b>DO NO</b> T GROUND) + OUTPUT OR - OUTPU					

SPECIF	CATIONS
Pressur	e Range
Excitation	on
Output	
Power 0	Consumption
Input Im	pedance
Output I	mpedance
Operation	ng Temperature Range
Weight	
Case O	utline
Constru	ction Materials
Line Pre	essure
Proof P	ressure (Delta)
Burst Pi	ressure (Delta)
Insulation	on Resistance
Mountin	g Torque
Total Er	ror Band
Resolut	ion
MTBF	
Fluid Te	mperature
	Temperature Range Operating)
Altitude	-Operating
Media C	Compatibility
Humidit	y
Accelera	ation
Vibratio	n
Mechan	ical Shock
Electron	nagnetic Interference

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)					
Unaffected					
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. (I) 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