



## INDUSTRIAL OEM AMPLIFIED PRESSURE TRANSDUCERS

### DCT-1000 SERIES      DCT(C)-1000 SERIES

- .5 to 5V Voltage Output
- 4 mA - 20 mA Current Output
- Digitally Corrected
- Factory Programmable Full Scale Output
- Rugged All Welded Construction
- High Overload Capability
- For High Reliability Commercial Applications
- Intrinsically Safe Applications Available (i.e. IS-DCT-1000 or IS-DCT(C)-1000)



By coupling Kulite's unique solid state sensor with a miniature, state-of-the-art IC, Kulite is able to offer the most advanced industrial pressure transducer available on the market today. Designed to measure liquid or gas pressure, the transducer is of all-welded stainless steel construction, with integral pressure port and diaphragm. The DCT(C)-1000 provides an extremely rugged, accurate and inexpensive means for pressure-to-voltage conversion. The ability to withstand high voltages between leads and cases make the DCT(C)-1000 Series transducers ideally suited for a large number of applications.

**VOLTAGE  
DCT-1000**

WIRING	
PIN	DESIGNATION
A	+ INPUT
B	RETURN
C	+ OUTPUT
D	EMPTY
E	EMPTY
F	FACTORY USE ONLY

**CURRENT  
DCT(C)-1000**

WIRING	
PIN	DESIGNATION
A	+ INPUT
B	RETURN
C	FACTORY USE ONLY
D	EMPTY
E	EMPTY
F	FACTORY USE ONLY

<b>INPUT</b>	Pressure Range	1.7 25	3.5 50	7 100	17 250	35 500	70 1000	170 2500	350 BAR 5000 PSI	
	Operational Mode	Absolute				Sealed Gage				
	Over Pressure	2 Times Rated Pressure to 1000 PSI (70 BAR)					1.5 Times Rated Pressure Above 1000 PSI			
	Burst Pressure	3 Times Rated Pressure								
	Pressure Media	Any Liquid or Gas Compatible With 15-5 PH or 316 SS								
	Maximum Electrical Current	25 mA								
	Rated Electrical Excitation	9 V - 32 V								
<b>OUTPUT</b>	Output	.5 to 5V or .5 to 10V Voltage Output				4 mA - 20 mA Current Output				
	Output Impedance	50 Ohms (Typ.)								
	Total Error Band	±0.25% FSO Total Error (Typ.), ± 0.5% FSO Total Error (Max.) (End Point Settings, Combined Non-Linearity, Hysteresis, Repeatability and All Thermal Effects Included)								
	Bandwidth (-3dB)	DC to 2500 Hz								
	Resolution	Infinitesimal								
	Insulation Resistance	100 Megohm Min. @ 50 VDC								
<b>ENVIRONMENTAL</b>	Operating Temperature Range	-65°F to +280°F (-55°C to +140°C)								
	Compensated Temperature Range	-40°F to +250°F (-40°C to +120°C)								
	Linear Vibration	50g Peak, Sine 10 to 2000 Hz								
	Humidity	100% Relative Humidity								
	Mechanical Shock	100g half Sine Wave 11 msec. Duration								
<b>PHYSICAL</b>	Pressure Port	A. 33656/E4 7/16-20 UNJF-3A			B. 1/4"-18 NPT Male		C. Other Ports Available			
	Electrical Connection	6 Pin PTIH-10-6P SS or Equivalent								
	Weight	100 Grams Approx.								
	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon								
	Mounting Torque	80-100 Inch-Pounds (Max.)								

Note: Shunt calibration available.  
Note: TEDs application optional.

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