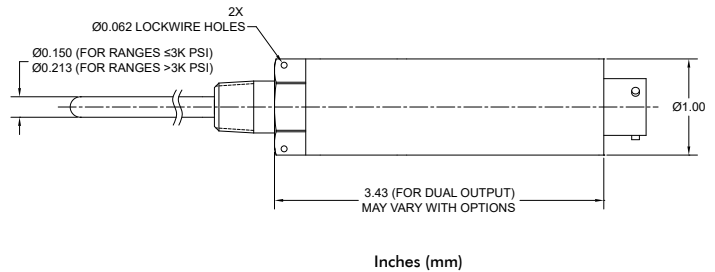


MODEL 243 / 343 DUAL PRESSURE & TEMPERATURE TRANSDUCER



STANDARD WIRING CONFIGURATION			
PIN/COND.	MODEL 243	PIN/COND.	MODEL 343
A/RED	+EXC (PRESS)	A/RED	+EXC/SIG (PRESS)
B/GRN	+SIG (PRESS)	B/BLK	-EXC/SIG (PRESS)
C/BLK	-EXC/SIG (PRESS)	C/BRN	+EXC/SIG (TEMP)
D/WHT	+EXC (TEMP)	D/BLU	-EXC/SIG (TEMP)
E/BRN	+SIG (TEMP)	E/WHT	N/C
F/BLU	-EXC/SIG (TEMP)	F/GRN	N/C



**REF DIMENSIONS ONLY.
CONSULT FACTORY FOR ACTUAL DIMENSIONS.**

PRODUCT OVERVIEW:

The Model 243 / 343 Series from GP:50 is an all-stainless steel, dual pressure and temperature transducer with 4-20 mA and 0-5 V output. Its compact design reduces I/O and insertion points where size and weight are considerations. Units are available in a variety of pressure and temperature ranges.

FEATURES:

- Pressure and temperature in a single device
- Dual 4-20mA, 0 to 5 Vdc or RTD Temperature outputs
- Maximum process temperatures from -65 °F to +250 °F (-54 °C to +121 °C)
- Probe lengths from 3/4" to 7" (19mm to 178mm)
- Compact 1-inch (25.4 mm) diameter
- Rugged all-welded stainless steel design
- Standard ranges from 0-50 PSI thru 0-10K PSI (3.5 thru 690 bar)
- Calibrated Temperature ranges from -40°F to +250 °F (-40°C to +121 °C)

APPLICATIONS:

- Vehicle, engine and transmission oil monitoring
- Oil rig topside controls
- Automotive test stands
- Process skids
- Medical equipment
- Laboratory R&D

OPTIONS:

- Alternate probe lengths, process ports and electrical connections
- Optional improved temperature specifications available
- Dual 0-5 Vdc or 4-20 mA outputs
- 0-5 Vdc or 4-20 mA pressure and RTD temperature output options
- ATEX/IEC Intrinsically Safe (AI) and ATEX Zone 2 Non-incendive (AN) approvals available. Note: these options will increase length of housing to 5.83" for dual output unit.

GP:50 MODEL 243 / 343

REFERENCE SPECIFICATIONS

Standard configurations shown, consult factory for other options

ELECTRICAL	
Output Signal:	(243) 0 to 5 Vdc (343) 4-20 mA
Temperature Output:	100 Ohm 2 wire Platinum RTD 0.00385 Alpha $\Omega/\Omega/\text{deg C}$, Class B 1000 Ohm 2 wire Platinum RTD 0.00385 Alpha $\Omega/\Omega/\text{deg C}$, Class B
Excitation Voltage:	9.0 to 36 Vdc
Circuit Protection:	RFI, EMI & Reverse polarity protected
Response Time:	~2 mSec Pressure / <2 Sec Temperature

MATERIALS OF CONSTRUCTION	
Wetted Parts:	316L or 17-4PH SST
Housing:	300 Series stainless steel
O-Ring (if needed):	Buna-N (Nitrile) is standard. For temp ranges -65 °F to 350 °F Fluorosilicone is standard.
Internal Fill:	Silicone Oil (Optional Fomblin) for some ranges

ACCURACY (BFSL): Hysteresis, non-Linearity & Repeatability @ +70 °F	
(Pressure) Standard:	$\pm 0.5\%$ FSO
(Pressure) Improved:	$\pm 0.2\%$ FSO or $\pm 0.1\%$ FSO
(Temperature) Standard:	$\pm 3.0\%$ FSO
Zero & Span Balance:	$\pm 1\%$ FSO

MECHANICAL	
Process Connection:	1/4" NPT (M) (other ports available)
Electrical Connection:	6-pin Bendix PT1H-10-6P stainless steel options available
Probe Length:	3/4" thru 7"
Proof Pressure:	Pressure: 2X FSO (optional 5X) Temperature: Std unit rated to 3000 PSI (Optional 10K PSI - Increases Probe Dia)
Burst Pressure:	5X FSO
Approximate Weight:	5 ounces

PRESSURE RANGES	
0-50 thru 0-10K PSI (3.5 thru 690 BAR) gauge, sealed gauge, absolute	

TEMPERATURE RANGES	
Calibrated ranges from -40 °F to +250 °F (-40 °C to +121 °C) (Consult factory for other ranges - Electronics rated to 250 °F)	

THERMAL SPECIFICATIONS	
Operating Range:	-40 °F to +250 °F (-40 °C to +121 °C)
Compensated Range:	+30 °F to +185 °F (-1 °C to +85 °C)
Storage Ambient:	-65°F to +250 °F (-54 °C to +121 °C)
Effect on Zero/Span Pressure:	< $\pm 0.5\%$ FSO/100 °F

