

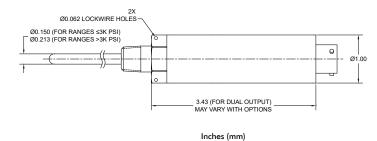
INDUSTRIAL



MODEL 243 / 343 DUAL PRESSURE & TEMPERATURE TRANSDUCER

STANDARD WIRING CONFIGURATION

PIN/COND.	MODEL 243	PIN/COND.	MODEL 343
A/RED	+EXC (PRESS)		+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.

A5SL-083 REV-K

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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 $\Omega/\Omega/\mathrm{deg}$ C , Class B 1000 Ohm 2 wire Platinum RTD 0.00385 Alpha $\Omega/\Omega/\mathrm{deg}$ 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 Flourosilicone is standard.	
Internal Fill:	Silicone Oil (Optional Fomblin) for some ranges	

ACCURACY (BFSL): Hysteresis, non-Linearity & Repeatability @ + 70 °F		
(Pressure) Standard:	±0.5% FSO	
(Pressure) Improved:	±0.2% FSO or ±0.1% FSO	
(Temperature) Standard:	±3.0% FSO	
Zero & Span Balance:	±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:	³¼" 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:	<±0.5% FSO/100 °F	



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All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact GP:50 for assistance with your application.