

## MODEL 543

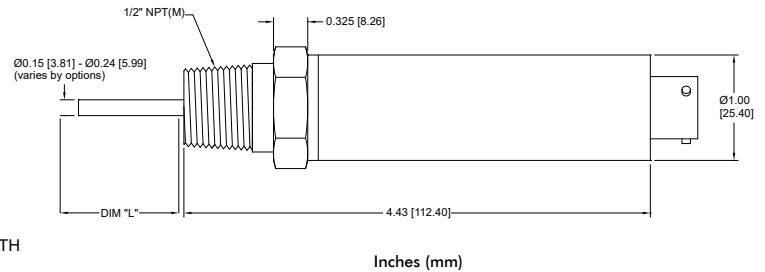
### DUAL PRESSURE & TEMPERATURE CANBUS TRANSMITTER



#### STANDARD WIRING

PIN	MODEL 543
A/1	+EXC
B/2	-EXC
C/3	CASE GND
D/4	CANBUS HI
E/5	CANBUS LOW
F/6	N/C

L = 0.50 TO 7.00 INCH PROBE LENGTH



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

#### PRODUCT OVERVIEW:

The Model 543 Series from GP:50 is an all-stainless steel, dual pressure and temperature CAN Bus output transmitter. 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, with support for both CAN Bus J1939 and CAN Open protocols.

#### FEATURES:

- Pressure and temperature in a single device
- Reduces I/O points
- Compact 1-inch (25.4 mm) diameter
- Rugged all-welded stainless steel design
- CAN Bus SAE J1939 or CAN Open protocol
- Standard ranges from 0-50 PSI thru 0-10K PSI (3.5 thru 690 bar)
- Temperature ranges from -40 °F to +300 °F (-40 °C to 149 °C)

#### APPLICATIONS:

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

#### OPTIONS:

- Field adjustable zero & span
- Adjustable message addresses, bit rate and custom streaming
- Optional extended CAN 2.0B 29-bit CAN identifiers
- Alternate probe lengths, process ports and electrical connections
- Optional improved temperature specifications available. Please consult factory.

# GP:50 MODEL 543

## REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

ELECTRICAL	
Output Signal:	CAN Bus SAE J1939
Excitation Voltage:	Standard: 10-32 Vdc Optional Expanded: 4.5 to 32 Vdc
Current Draw:	40 mA
Standard Resolution:	18-Bit
Standard Messaging:	Pressure, temperature & raw sensor signals (Up to four messages can be streamed)
Standard CAN Protocol:	11-bit CAN identifiers (Optional Extended CAN 2.0B 29-Bit CAN identifiers)

MATERIALS OF CONSTRUCTION	
Wetted Parts:	17-4 PH Stainless Steel
Housing:	300 Series Stainless Steel

ACCURACY (BFSL): Hysteresis, Non-Linearity & Repeatability @ +70 °F	
Standard:	±0.5%
Improved:	Optional ±0.2% FSO or ±0.1% FSO
Zero & Span Balance:	±0.2% FSO at +70 °F

MECHANICAL	
Process Connection:	¼" NPT (M) with 0.75" temperature probe
Electrical Connection:	6-pin Bendix connector
Proof Pressure:	2X FSO (Optional 5X)
Burst Pressure:	5X FSO
Optional ports and probe lengths available	

PRESSURE RANGES	
0 to 50 thru 0 to 10K PSI (3.5 thru 690 BAR) Gauge, Sealed Gauge, Absolute	

THERMAL SPECIFICATIONS	
Operating Ambient:	-40 °F to +185 °F (-40 °C to +85 °C)
Operating Process:	-40 °F to +250 °F (-40 °C to +121 °C)
Compensated Range:	+30 °F to -185 °F (-1 °C to -120 °C)
Storage Ambient:	-65 °F to 250 °F (-54 °C to +121 °C)
Effect on Zero/Span:	< ±0.5% FSO/100 °F
Improved or expanded temperature compensation available	

TEMPERATURE MEASUREMENT	
Ranges:	-40 °F to +300 °F (-40 °C to +149 °C)
Standard Accuracy:	±0.5 °C from -70 °F to +260 °F (-57 °C to +127 °C)
Compensated Range:	+30 °F to -185 °F (-1 °C to -121 °C)
Storage Ambient:	-65 °F to 250 °F (-54 °C to +121 °C)

