



DUAL PRESSURE & TEMPERATURE CANbus TRANSMITTER

MODEL 543



Model 543
Dual Pressure & Temperature
CANbus Transmitter

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
- CANbus SAE J1939 or CANopen 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 150°C)

APPLICATIONS:

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

PRODUCT OVERVIEW:

The Model 543 series from GP:50 is an all-stainless steel, dual pressure and temperature CANbus 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 CANbus J1939 and CANopen protocols.

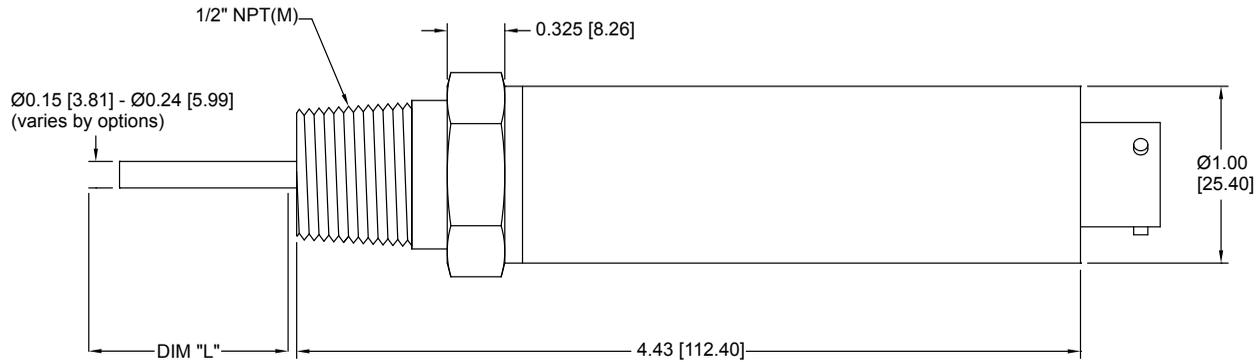
FIELD OPTIONS:

- 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

DIMENSIONAL DRAWING

All dimensions are in inches (mm)



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

REFERENCE SPECIFICATIONS

ELECTRICAL	MECHANICAL
<ul style="list-style-type: none"> Supply Voltage: <ul style="list-style-type: none"> Standard: 9-36 Vdc Optional Expanded: 4.5 to 37 Vdc Output Signal: CANbus SAE J1939 Current Draw: 40 mA Standard Resolution: 18-bit Zero Balance: $\pm 0.2\%$ FSO at $+70^\circ\text{F}$ Standard Messaging: <ul style="list-style-type: none"> 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) Connection: 6-pin Bendix connector 	<ul style="list-style-type: none"> Process connection: $\frac{1}{2}$" NPT (M) with 0.75" temperature probe Proof Pressure: 2X FSO (optional 5X) Burst Pressure: 5X FSO Optional ports and probe lengths available
MATERIALS OF CONSTRUCTION <ul style="list-style-type: none"> Wetted Parts: 17-4 PH stainless steel Housing: 300 series stainless steel 	PRESSURE RANGES <ul style="list-style-type: none"> 0-50 thru 0-10K PSI (3.5 thru 690 BAR) gauge, sealed gauge, absolute
STATIC ACCURACY (BFSL) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ $+70^\circ\text{F}$) <ul style="list-style-type: none"> Standard: $\pm 0.5\%$ FSO Improved: Optional $\pm 0.2\%$ FSO or $\pm 0.1\%$ FSO 	THERMAL SPECIFICATIONS (FOR PRESSURE OUTPUT) <ul style="list-style-type: none"> Compensated: $+30^\circ\text{F}$ to -185°F (-1°C to -120°C) Operating Ambient: -40°F to $+185^\circ\text{F}$ (-40°C to $+85^\circ\text{C}$) Operating Process: -40°F to $+250^\circ\text{F}$ (-40°C to $+120^\circ\text{C}$) Storage: -65°F to $+250^\circ\text{F}$ (-55°C to $+120^\circ\text{C}$) Effect on zero/span: $< \pm 0.5\%$ FSO/100 $^\circ\text{F}$
	TEMPERATURE MEASUREMENT <ul style="list-style-type: none"> Ranges: -40°F to $+300^\circ\text{F}$ (-40°C to $+150^\circ\text{C}$) Standard Accuracy: $\pm 0.5^\circ\text{C}$ from -70°F to $+260^\circ\text{F}$ (-55° to $+125^\circ\text{C}$) Expanded Accuracy: $\pm 1.0^\circ\text{C}$ from -40°F to $+400^\circ\text{F}$ (-40°C to $+205^\circ\text{C}$) Standard Resolution: 32°F (0.06°C), 33°F (0.5°C) expanded

**Standard configurations shown.
Please consult factory for other options.**

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.

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