



CAN bus DIGITAL OUTPUT PRESSURE TRANSDUCER



Model 540
CANbus Digital Output
Pressure Transducer

MODEL 540

FEATURES:

- CANbus SAE J1939 or CANopen protocol
- Compact 1-inch (25.4 mm) diameter
- Rugged all-welded stainless steel design
- Standard ranges from 0-1 PSI thru 0-10K PSI (3.5 thru 690 bar)
- Up to 0.05% FSO accuracy
- Field programmable options

APPLICATIONS:

- Automotive test stands
- Aerospace testing
- Laboratory R&D
- Oilfield vehicles
- Oil rig controls

PRODUCT OVERVIEW:

GP:50 model 540 CAN bus digital output pressure transducer provides high resolution, accuracy, and improved thermal performance to meet the demands of the automotive, medical and laboratory test markets. The CAN open protocol allows for multiple devices on a single bus reducing installation time and cost.

FIELD OPTIONS:

- Field adjustable zero & span
- Adjustable message addresses, bit rate and custom streaming
- Optional extended CAN 2.0B 29-bit CAN identifiers
- Dual temperature & pressure output available (Model 543)

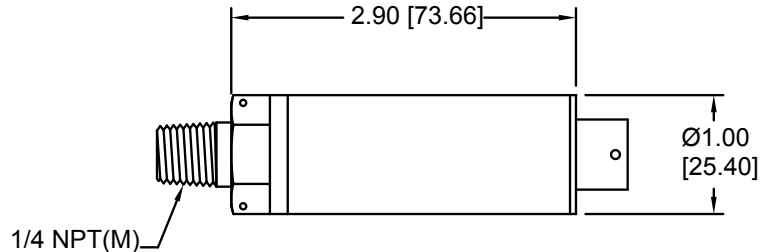
GP:50 MODEL 540

DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING

PIN	MODEL 540
A/1	+EXC
B/2	-EXC
C/3	CASE GND
D/4	CANBUS HI
E/5	CANBUS LOW
F/6	N/C



REFERENCE SPECIFICATIONS

ELECTRICAL	
<ul style="list-style-type: none">• Supply Voltage: Standard: 9-32 Vdc Optional Expanded: 4.5 to 32 Vdc• Output Signal: CANbus SAE J1939 or CANopen• Current Draw: 40 mA• Standard Resolution: 18-bit• Zero Balance: $\pm 0.2\%$ FSO @ 70 °F• 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)• Connection: PTIH-10-6P	
MATERIALS OF CONSTRUCTION	
<ul style="list-style-type: none">• Wetted Parts: 17-4 PH stainless steel or 316L Stainless Steel• Housing: 300 series stainless steel• ≤ 300psi contains silicon oil / optional Fomblin	
STATIC ACCURACY (BFSL) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)	
Standard: $\pm 0.5\%$ FSO Improved: Optional $\pm 0.2\%$ FSO, $\pm 0.1\%$ FSO, or 0.05% FSO accuracy	
MECHANICAL	
<ul style="list-style-type: none">• Process connection: 1/4" NPT (M) (consult factory for other options)	
PRESSURE RANGES	
<ul style="list-style-type: none">• 0-1 PSI thru 0-10K PSI (3.5mBAR to 344 BAR) gauge, sealed gauge, absolute	
THERMAL SPECIFICATIONS	
<ul style="list-style-type: none">• Compensated: +30 °F to -185 °F (-1 °C to -120 °C)• Operating Ambient: -40 °F to +185 °F (-40 °C to +85 °C)• Operating Process: -40 °F to +250 °F (-40 °C to +120 °C)• Storage: -65 °F to +250 °F (-55 °C to +120 °C)• Effect on zero/span: $< \pm 0.5\%$ FSO/100 °F	

**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.