

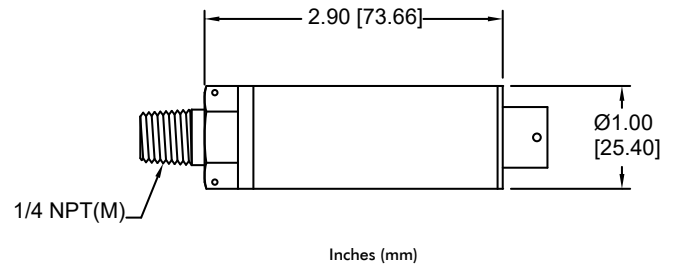
## MODEL 540

### CAN Bus DIGITAL OUTPUT PRESSURE TRANSDUCER



#### 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



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

#### 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.

#### FEATURES:

- CANbus SAE J1939 or CAN Open 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)
- 16 bit or optional 18 bit resolution
- Field programmable options

#### APPLICATIONS:

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

#### 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)
- Improved accuracy to 0.05% FSO (Model 541)

# GP:50 MODEL 540

## REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

ELECTRICAL	
Output Signal:	CAN Bus or CAN Open
Excitation Voltage:	Standard: 10-32 Vdc Optional Expanded: 4.5 to 32 Vdc
Circuit Protection:	RFI, EMI & Reverse polarity protected
Standard Resolution:	16 bit standard, 18-bit improved
CAN Protocol:	11-bit CAN identifiers (Optional Extended CAN 2.0B 29-bit CAN identifiers)
Response Time:	Adjustable

MATERIALS OF CONSTRUCTION	
Wetted Parts:	17-4 PH stainless steel or 316L Stainless Steel
Housing:	300 Series stainless steel
Internal Fill:	≤2000 PSI Silicone Oil (Fomblin Optional)

ACCURACY (BFSL): Hysteresis, non-Linearity & Repeatability @ +70 °F	
Standard:	±0.5% FSO
Improved:	±0.2% FSO
Zero & Span Balance:	±0.25% FSO @ 70 °F

MECHANICAL	
Process Connection:	¼" NPT (M) (Consult factory for other options)
Electrical Connection:	PTIH-10-6P
Proof Pressure:	2X FSO or 22.5K PSI Max
Burst Pressure:	5X FSO or 22.5K PSI Max
Approximate Weight:	8 oz.

PRESSURE RANGES	
0-1 PSI thru 0-10K PSI (3.5 mBAR to 344 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:	<±1.0% FSO/100 °F

