

FLUSH MOUNT CANBUS PRESSURE TRANSMITTER

MODEL 540-IM

FEATURES:

- Flush sensor eliminates media plugging
- Compact size
- Rugged welded design
- No zero offset from installation
- CAN bus J1939 Protocol or CANopen

APPLICATIONS:

- Oil field vehicle controls
- Off-shore platforms
- Dredging
- Automotive test stands
- Medical equipment
- Laboratory R&D

PRODUCT OVERVIEW:

GP:50's model 540-IM series offers CANbus protocol in a flush faced sensor design. GP:50's CANbus protocol provides high resolution, reduced noise and improved thermal performance. The flush Inconel diaphragm provides maximum corrosion resistance and limits plugging associated with viscous media.



Model 540-IM
Flush Mount CAN Bus Pressure Transmitter

FIELD OPTIONS:

- Field adjustable zero
- Adjustable message addresses, bit rate and message streaming
- Optional extended CAN 2.0B 29-bit CAN identifiers

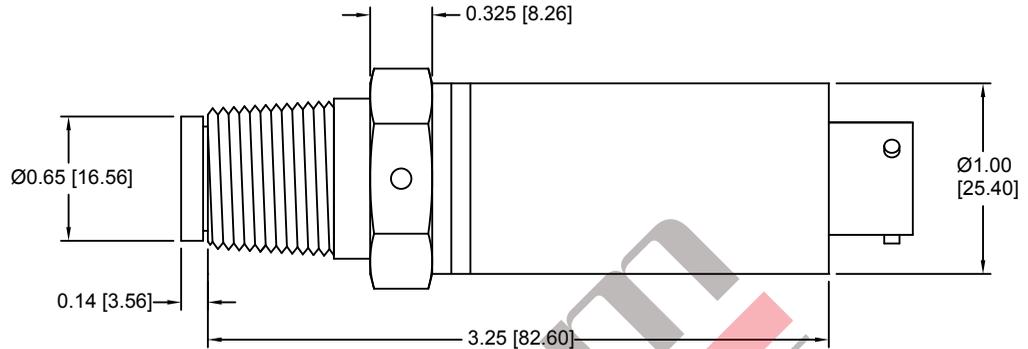
GP:50 MODEL 540-IM

DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING

| PIN | MODEL 540-IM |
|-----|--------------|
| 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 | STATIC ACCURACY (RSS) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F) |
|---|---|
| <ul style="list-style-type: none"> • Supply Voltage: Standard: 5.6 to 18 Vdc Optional Expanded: 4.5 to 37 Vdc | <ul style="list-style-type: none"> • Standard: ±0.5% FSO ±0.2 % FSO and ±0.1% FSO available |
| <ul style="list-style-type: none"> • Output Signal: CAN bus SAE J1939 (consult factory) • Current Draw: 40 mA • Standard Resolution: 18 Bit • Zero Balance: ±1% FSO at 70 °F • Standard Messaging: Pressure, temperature & mV/V sensor (Up to four messages can be streamed) • Standard CAN Protocol: 11 Bit CAN identifiers Optional Extended CAN 2.0B-29 Bit CAN identifiers • Connection: 1/2" NPT (M) conduit with 3/6" cable leads or 6-Pin Bendix connector | MECHANICAL <ul style="list-style-type: none"> • Process connection: 1/2" NPT (M) • Proof Pressure: 2X FSO (optional 5X) • Burst Pressure: 5X FSO |
| MATERIALS OF CONSTRUCTION <ul style="list-style-type: none"> • Wetted Parts: Inconel • Housing: 300 series stainless steel | PRESSURE RANGES <ul style="list-style-type: none"> • 0 to 50 thru 0 to 1000 PSI (3.5 thru 69 BAR) gauge, sealed gauge, absolute |
| | THERMAL SPECIFICATION <ul style="list-style-type: none"> • Compensated: +30 °F to -185 °F (-1 °C to -120 °C) expanded and improved available • Operating Ambient: -40 °F to +185 °F (-40 °C to +85 °C) • Operating Process: -40 °F to +250 °F (-40 °C to +121 °C) • Storage: -65 °F to +250 °F (-54 °C to +121 °C) • Effect on zero/span: < ±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.