



## Pressure, Level & Temperature Transmitters & Transducers

2770 Long Road, Grand Island, NY 14072 USA

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### Model 543 Series

## DUAL PRESSURE & TEMPERATURE CANBUS TRANSMITTER



#### FEATURES:

- Pressure & temperature in one device
- Reduces IO Points
- All welded, rugged construction

#### CANBus J1939 Protocol offers:

- Adjustable Bit Rate
- Adjustable Message Output Rate
- System Output Re-Zero
- Digital Shunt
- Adjustable Message Addresses
- Custom Message Streaming
- High Stability option provides; Higher resolution, noise reduction, better thermal performance & long term stability

#### PRESSURE RANGES: (Consult factory for higher ranges)

- 0-50 Thru 0-1,000 PSI

#### WIRING: 543

A/1	+ Excitation
B/2	- Excitation
C/3	Case Ground
D/4	Can High
E/5	Can Low
F/6	N/C

#### Accuracy - Pressure Measurement: (Static Error Band)

- Series B: +/- 0.5 % FSO
- Series C: +/- 0.25 % FSO
- Series D: +/- 0.1 % FSO
- Series E: +/- 0.05 % FSO

#### Temperature Compensation: (Pressure)

(expanded & improved options available)

- Compensated Range: 30° F -185° F
- Operating Range: Process: -40° F to +250° F  
Ambient: -40° F to +185° F
- Storage Range: -65° F to +250° F
- Temperature Effect on Zero: +/-0.5 % FSO/100° F
- Temperature Effect on Span: +/-0.5 % FSO/100° F

#### Temperature Measurement:

- Standard Accuracy: +/- 0.5° C from -55 to +125° C (-70 to 257° F)
- Expanded Accuracy: +/- 1.0° C from -40 to 205° C (-40 to 400° F)
- Standard Resolution: 0.0625° C
- Expanded Resolution: 0.5° C

#### Electricals:

- Standard Excitation Voltage: 5.6 -18 VDC
- Optional Expanded Excitation Voltage: 4.5-37 VDC
- Current Draw: 40 mA
- Output: CANBus J1939 (Consult factory for specifics)
- Standard Resolution: 16 Bit
- Optional Improved Resolution: 18 Bit
- Standard Connection: 1/2" NPT Male Conduit with 36" leads
- 4 Wire Device: +/- Signal & +/- Power, Case Ground

#### Mechanicals:

- Proof Pressure: 2x FSO (Optional 5 X)
- Burst Pressure: 5x FSO
- Case Materials: 300 series SST
- Wetted parts: 17- 4PH SSTT
- Process Connection: 1/2" NPT Male with temp probe

#### Protocol: (Consult factory for more detail)

- Standard Can protocol - 11 bit CAN Identifiers
- Optional Extended Can 2.0B -29 bit CAN Identifiers
- Standard messaging: Pressure, Temperature & mV/V Sensor.  
Up to four messages can be streamed

A5SL-543.00



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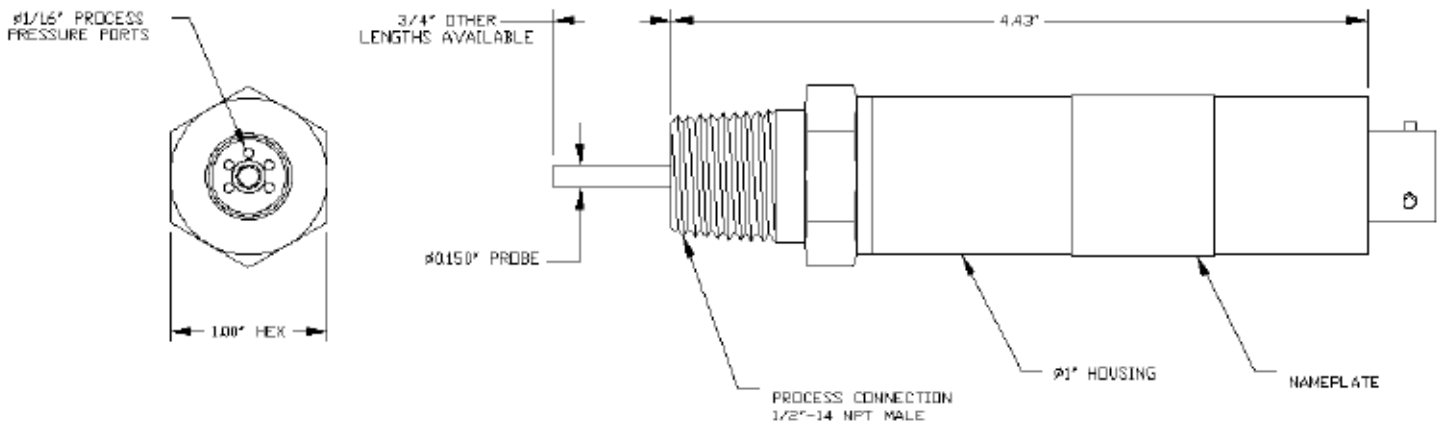
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Some options will affect dimensions. Consult factory if important.



**Typical configurations (consult factory for more options)**

**MODEL**

543 CANBus (J1939)

**STATIC ACCURACY**

B +/- 0.5 % FSO      D +/- 0.1 % FSO  
C +/- 0.25 % FSO      E +/- 0.05 % FSO

**PRESSURE RANGE  
(PSI)**

PV 0-15      RE 0-250  
PX 0-75      RF 0-300  
PZ 0-100      RH 0-500  
RB 0-150      RK 0-750  
RD 0-200      RM 0-1,000

**PRESSURE TYPE**

2 Gauge  
3 Absolute  
6 Sealed Gauge

**Temperature Range**

00 0° F to 250° F  
01 -40° F to 250° F  
02 -40° F to 185° F  
03 0° F to 300° F

**Probe Length (Consult factory for more measurements)**

A .75      G 1.75  
B 1.00      H 2.00  
C 1.25      J 2.25  
D 1.50      K 2.50

**OPTIONS (Other options available, consult factory)**

**ELECTRICAL CONNECTOR OR CABLE**

CA PTIH-10-6P (Mate PT06E-10-6S [SR], not included)  
CF 1/2" NPT (M) Thread with 3FT leads  
DK 4 Pin SST Glenair Equal

**PRESSURE PORTS**

IM 1/2" NPT Male (Flush)

**NOTE:**

Specifications reflect standard product, improved performance / mechanical options available. Modifications may alter specs, consult factory for more information.