

Measuring pressure and temperature

The model 543 transmitter by GP:50 (USA) features CANopen and J1939.

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The dual pressure and temperature transmitter has a 25,4-mm diameter (Photo: GP:50)

The introduced transmitter comes in is an all-stainless steel. It provides pressure and temperature measured values at its CAN interface. The 6-pin CAN connector is from Bendix. The product supports CANopen and J1939 higher-layer protocols and related profiles. The CANopen PDOs (process data object) are adjustable regarding priority (CAN-ID), transmission type, and mapping. Also the J1939 parameter groups (PG) are programmable regarding PGN number as part of the 29-bit CAN-ID as well as the transmission bit-rate. The content of the 8-byte PG can also be customized.

Field values such as zero and span are configurable. The pressure measuring range is 0 bar to 3,5 bar up to 0 bar to 690 bar. The allowed temperate range is -40 °C to +150 °C. The design reduces I/O and insertion points, when size and weight are considerations. Alternate probe lengths, process ports, and electrical connections are possible on demand.

Additionally, the company manufactures the model 540-IM transmitter. The CANopen and J1939 connectable sensor measures pressures. Both mentioned products address automotive test stands, off-shore platforms, medical devices, and laboratory equipment.

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