

PRESSURE TRANSMITTER

## For pressures up to 700 bar

Trafag (Switzerland) released the CMP 8271 pressure transmitter implementing the CiA 404 CANopen device profile for measuring devices.



*CMP 8271 is dedicated for heavy-duty applications (Source: Trafag)*

Sensor variants are available for relative and absolute pressure measurements from 0,25 bar up to 700 bar with a resolution of 0,01 %. The completely-welded sensor system without additional seals uses the thin-film-on-steel measuring principle. The given shock (up to 100 g) and vibration (up to 50 g) resistance as well as the operating temperature from -40 °C to +125 °C makes the device suitable for harsh environments in demanding applications such as mobile hydraulics.

The device supports CAN bit-rates from 10 kbit/s to 1 Mbit/s with automatic bit-rate detection as well as 11-bit and 29-bit CAN-Identifier. Parameter saving for CANopen communication and application parameters as well as a flash update are available. The transmitter can produce an emergency message. It also supports a self-starting function according to the CiA 302 CANopen additional application layer framework. By means of the implemented LSS (layer setting services) according to CiA 305, the device's node-ID and bit-rate can be configured via the CANopen network.

The device implements the CiA 404 CANopen device profile for measuring devices and closed-loop controllers. Measuring and transmitting frequency can reach up to 1 kHz. The magnitude-adjustable physical units such as bar, Pa, psi, mmHg, mmWg, atm, at, °C, °F, and K are selectable. Four pressure and four temperature thresholds can be defined. Furthermore, the auto-zero function is implemented. The two available TPDOs (transmit process data objects) can be triggered by an event or a timer as well as sent cyclically. The implemented SDO server allows to read/write the parameters of the device's CANopen object dictionary. The manufacturer also provides the [CMP 8270](#) dedicated for measuring ranges up to 600 bar.

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