



# CSMpressure

## Type 0.1 bar ... 40 bar



### CAN-Bus pressure sensors

#### Key features

- ▶ Fully integrated in CSM CAN-Bus tool chain (CAN and XCP-Gateway)
- ▶ Simple configuration via CSMconfig and CSM INCA AddOn
  - ▶ incl. auto-zero support
  - ▶ incl. measurement scheme support
- ▶ Requires less bandwidth than standard CANopen pressure sensors (factor 2)
- ▶ Operation as CANopen pressure sensor possible
- ▶ Measurement data rate up to 1 kHz
- ▶ Operating temperature range: -40 °C to +125 °C

#### Product description

**CSMpressure** CAN-Bus pressure sensors are available as relative and absolute pressure sensors for a variety of measurement ranges. They are characterized by an extremely compact design, high accuracy, wide temperature range and suitability for harsh environmental conditions.

The **CSMpressure** transmit the measurement data as 16-bit raw values free running, which is not the case with standard CANopen pressure sensors. The CSMconfig configuration tool and dbc files are used for configuration. Thus they are fully integrated into the CSM CAN-Bus family as an independent device. This includes the support of the measurement scheme and the auto zero function. Compared to standard CANopen pressure sensors, they require two times less bandwidth. This is because the measurement data is transmitted as 16-bit raw values instead of 32-bit physical values.

#### Variants <sup>1)</sup>

Type designation	Article number	Measurement range	Measurement type
CSMpressure 0.1 bar	ART1480112	-150 ... 100 mbar	relative
CSMpressure 1.5 bar	ART1480109	-500 ... 1,500 mbar	relative
CSMpressure 2.5 bar	ART1480100	0 ... 2,500 mbar	relative
CSMpressure 6 bar	ART1480110	0 ... 6,000 mbar	relative
CSMpressure 10 bar	ART1480104	0 ... 10,000 mbar	relative
CSMpressure 16 bar	ART1480111	0 ... 16,000 mbar	relative
CSMpressure 25 bar	ART1480106	0 ... 25,000 mbar	relative
CSMpressure 10 bar	ART1480200	0 ... 10,000 mbar	absolute
CSMpressure 40 bar	ART1480202	0 ... 40,000 mbar	absolute

<sup>1)</sup> Additional variants on request

## Technical data

Type designation	CSMpressure
Notice	technical data of CAN-Bus pressure sensors: <a href="https://www.trafag.com/H72614">https://www.trafag.com/H72614</a>
Measurement data rate	up to 1 kHz
Measurement accuracy <sup>2)</sup>	
Pressure	typ. $\pm 0.15\%$
Temperature	typ. $\pm 1\text{ }^{\circ}\text{C}$
Power supply	8 .. 32 V DC
Protection class	IP67
Operating temperature range	-40 °C to +125 °C
Storage temperature	-50 °C to +135 °C
EMV protection	
Emission	EN/IEC 61000-6-4
Immunity	EN/IEC 61000-6-2
Conformity	CE

2) Further accuracies on request

## Accessories

- ▶ K653-0020 adapter cable for CAN connector (ART1402101)
- ▶ Various thread adapters for pressure connector (on request)

## Connectors

- A Pressure connector G1/4", male  
 B CAN connector Turck M12 5-pole  
 C CAN connector <sup>3)</sup> Lemo 0B 5-pole Code G

3) when using K653 adapter cable



CSM GmbH Germany is certified.



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