

### Pressure transducer with CAN output for automotive applications

- Absolute and relative pressure gauge in the range of 1 ... 250 bar
- Internal temperature sensor at gauge point
- Measurement data output to CAN
- Galvanic isolation (inputs, CAN, supply, enclosure)
- Designed for engine compartment applications
- Toolless module to module connection
- Ruggedized and compact modules for harsh environments



<b>Device</b>	
Overload Pressure	3 x full scale / burst pressure > 200 bar
Channel sampling rates	1/ 2/ 5/ 10/ 20/ 50/ 100/ 200/ 500/ 1000/ 2000 Hz
Aggregate sample rate	2 kHz
Oversampling	10 kHz
Voltage supply	6 ... 36 VDC
Supply voltage thresholds	Switch-on 6 ±0.3 VDC / Switch-off 6 ±0.3 VDC
Power consumption, typical	0.7 W
Working temperature range	-40 ... 125 °C (-40 ... 257 °F)
Storage temperature range	-55 ... 150 °C (-67 ... 302 °F)
IP-Code	Relative IP 52 / absolut IP 65 (ISO 20653 - 2013)
Relative humidity	5 ... 95 %
Dimensions	L76 mm x Ø 24 mm (2.99 in x 0.94 in)
Weight	120 g (0.26 lb)
Configuration interface	CAN high speed
Data transfer rate	Software selectable up to 1 Mbit/s (ISO11898-2)
Housing material	Stainless steel 4435
Wrench size	24 mm (0.94 in)
Connecting thread	M 10x1 / M 14x1.5 / G¼ (male / female thread)
Tightening torque	17 ... 23 Nm
Thread dimensions M10 (male)	D = 10 mm / L1 = 8.5 mm / L2 = 25.5 mm
Thread dimensions M10 (female)	D = 10 mm / L1 = 9.5 mm / L2 = 26.5 mm
Thread dimensions M14 (male)	D = 14 mm / L1 = 9.5 mm / L2 = 25.5 mm
Thread dimensions M14 (female)	D = 14 mm / L1 = 10.5 mm / L2 = 26.5 mm
Thread dimensions G¼ (male)	D = 13.2 mm / L1 = 9.5 mm / L2 = 25.5 mm
Thread dimensions G¼ (female)	D = 13.2 mm / L1 = 10.5 mm / L2 = 26.5 mm
<b>Galvanic isolation</b>	

A/D converter	16 bit / SAR (successive approximation register)
Special functions	Offset adjust, during measurement, multiple groups
Hardware filter (switchable)	1.2 kHz, Butterworth (8-pole)
Hardware filter (switchable)	Accuracy 10 %
Software filter types	Butterworth, Bessel, Elliptic (8-pole)
Software filter (DSP selectable)	6/ 7.5/ 9.96/ 15/ 30/ 39.96/ min
Software filter (DSP selectable)	1/ 1.25/ 1.67/ 2.5/ 5.0/ 6.67/ 10/ 12.5 Hz
Software filter (DSP selectable)	16.67/ 25/ 50/ 66.7/ 100/ 125/ 166.67/ 250/ 500 Hz
Software filter (DSP selectable)	Accuracy 0.05 %
<b>Channel pressure</b>	
Pressure range	0 ... 1/ 2/ 5/ 10/ 20/ 25/ 50/ 100/ 150/ 250/ bar (relative / absolute)
Accuracy at ambient temperature -40 ... 125 °C	0.5 % FS (Full Scale / TEB Total Error Band)
Media temperature range (gas or liquids)	-50 ... 150 °C (-40 ... 302 °F)
Accuracy of temperature measurement -40 ... 150 °C	±3 K
<b>Accessories</b>	
System cable	620-561.pdf
System cable	620-502.pdf
System cable	620-560.pdf
System cable	620-509.pdf
System cable	620-567.pdf
System cable	M-CAN-ABS.pdf
System cable	M-DEF-200.pdf