

QPress Pressure Transducer - QOM-AUTO 3100 Series

Compact automotive OEM pressure transducer, 0–700 bar, 17-4PH stainless steel, 4–20 mA or 0.5–4.5 V.

Certifications

Quality Lab Solutions data sheet R4



Applications

- Automotive air-conditioning systems
- Automotive braking and hydraulic circuits
- On-board CNG cylinder pressure monitoring
- Oilfield and general vehicle OEM pressure monitoring

Special Features

- Fully welded 17-4PH stainless-steel pressure assembly
- Pressure ranges: 0–10 bar to 0–700 bar
- Outputs: 4–20 mA; 0.5–4.5 V ratiometric
- Overpressure 200 %FS; burst 500 %FS
- Long-term stability ± 0.25 %FS/year
- Vibration 20 g; shock 100 g (11 ms)
- Operating temperature -40 to 140 °C (media)
- Compensation (ambient) -20 to 85 °C
- G1/4 or 1/4 NPT process connection
- Round Packard electrical connection



QOM-AUTO 3100

Description

OEM compact pressure transducer using a glass-fused silicon sensor element within a monolithic 17-4PH stainless-steel body. The oil-free, fully welded construction provides robust overload capability and reliable sealing. Available with 4–20 mA or ratiometric 0.5–4.5 V outputs and pressure ranges from 0–10 bar up to 0–700 bar.

Temperature-compensated electronics ensure stable operation across -20 to 85 °C ambient with media temperatures from -40 to 140 °C. The design maintains long-term stability and withstands high shock and vibration for automotive duty.

Specifications

TECHNICAL SPECIFICATIONS	
Pressure range	0–10 bar; 0–35 bar; 0–70 bar; 0–100 bar; 0–200 bar; 0–400 bar; 0–700 bar
Pressure reference	Gauge
Accuracy	±1% FS
Ambient temp.	–20 to 85 °C
Medium temp.	–40 to 140 °C
Storage temp.	–50 to 150 °C
Insulation resistance	100 MΩ at 250 VDC
Vibration resistance	20 g
Shock resistance	100 g (11 ms)
Wetted Parts	17-4PH stainless steel
Size of hexagon	23.8 mm
Approvals/Certification	CE, UKCA, RoHS
Electrical Outputs	4–20 mA; 0.5–4.5 V
Process connections	G1/4; 1/4 NPT
Overpressure/Burst Pressure	200 %FS
Housing Material	17-4PH stainless steel
Electrical connections	Round Packard
Power Supply	5 VDC; 9–30 VDC

Measuring Range

Range Code	Measuring Range	Pressure Reference	Overpressure	Burst Pressure
01	0-10 bar	GP	200%FS	500%FS
02	0-35 bar	GP	200%FS	500%FS
03	0-70 bar	GP	200%FS	500%FS
04	0-100 bar	GP	200%FS	500%FS
05	0-200 bar	GP	200%FS	500%FS
06	0-400 bar	GP	200%FS	500%FS
07	0-700 bar	GP	200%FS	500%FS

Output Signals

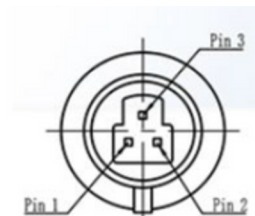
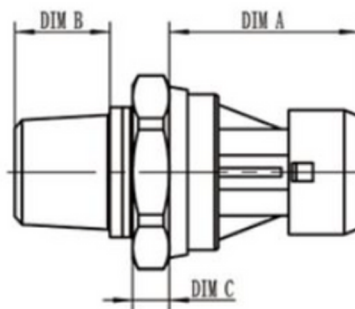
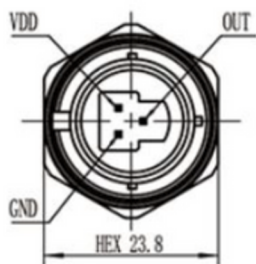
Code	Output	Power Supply
I4	4-20 mA (2-wire)	9-30 VDC
V1	1-5 V	9-30 VDC
VR	0.5-4.5 V ratiometric	5 VDC

Electrical Connections

2-wire current (I4)	Pinout
E4 - Round Packard	Not specified in source; confirm at order
3-wire voltage (V1/VR)	Pinout
E4 - Round Packard	Pin 1: VCC; Pin 2: GND; Pin 3: Voltage output

Process Connections/Drawings

Code	Thread / Port
P1	G1/4
P2	NPT1/4



Order Guide

Segment	Your Code	Options
Product family	QOM-AUTO 3100	QOM-AUTO 3100
Range	01 ... 07	See "Measuring range & accuracy" (Range code)
Pressure Reference	GP	GP = Gauge
Output	I4 / V1 / VR	See Output table
Process Connection	P1 / P2	See Process Connections
Electrical Connection	E4	See Electrical Connections

Ordering Example 0-100 bar gauge, 4-20 mA, G1/4, Round Packard

Family	Range	Ref	Output	Process	Electrical
QOM-AUTO 3100	04	GP	I4	P1	E4

Notes

Ensure media compatibility with wetted parts. Torque depends on gasket, mating material and lubrication.