AUTO-TRANS SENSORS
U.K.

ADZ-S
(2bar up to 2000bar)

FEATURES

❑ Stainless Steel Diaphragm ❑ Poly-Si-SiO2-Layer ❑ 4 to 20mA (2 wire) ❑ Class: 0.25%
❑ Operating Temperature –40⁰C to 100⁰C / 120⁰C ❑ Mixed Signal ASIC Conditioned.

Applications

❑ Hydraulic Controls ❑ Pump & Compressors ❑ Pneumatic Controls ❑ Industrial Robots
❑ Off-Road Vehicles ❑ Process Controls ❑ HVAC ❑ Water Management ❑ Petrochemicals.

Features

❑ Media Compatible ❑ Vibration Proof ❑ ASIC Conditioned ❑ EMI and ESD Proof.

Description

The ADZ-S-10 pressure transducer contains a minimum of components : the sensor element, one signal conditioning ASIC and a power stage. The ASIC is a precision CMOS circuit with EPROM data storage utilizing an analog signal path, with the extended temperature range for industrial and automotive applications. The electronic sensor calibration is performed by use of an in house designed test and calibration system which utilizes state of the art, electronic trimming technology and A/D converter controlled amplifiers based on switched capacitor technology.

The stainless steel pressure port resists unfriendly media such as oil, diesel, fuel, waste water and other unfriendly liquids.

Quality is strictly controlled according to ISO 9001 quality guidelines.

General Data ADZ-S

Sensor

Pressure type	Gage, Sealed Reference Option - Absolute
Measuring principle	Piezoresistive

Environmental Data

Operating	-40 to +100⁰C / 120⁰C
Storage	-40 to +125⁰C

Pressure Data

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Pressure ranges	2 bar up to 2000 bar (to request)
Over pressure	2 X up to 1000 bar, 1.5 X up to 2000 bar
Burst pressure	3 X
Wetted components	17-4PH, no O- rings, no Silicone Oil

Electrical Characteristics

	Min.	Typ.	Max.	
Span		16		mA
Full scale output		20		mA
Zero output		4		mA
Total accuracy		0.5		%FS*
Response time		1		ms
Supply voltage	10		32	Volt DC
Loading			Vs- 10V/20mA	
Insulation resistance at 50V	100			MΩ

* Total accuracy includes non -linearity, hysteresis, repeatability and temperature effects!
**Specific accuracy requirements for the whole operating range can be defined to suit individual application.

Ordering information :

Please consult our sales engineers to define your application, cost and performance needs.

Different pressure ports available on request. (G1/4", M14*1.5, M12*1.5, NPT, UNF......)
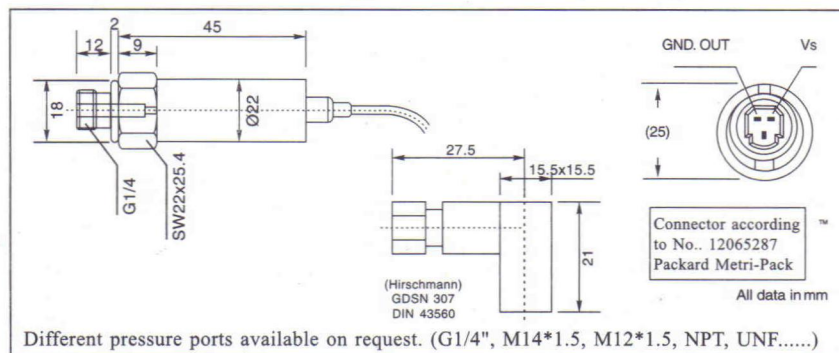
Order Information

Example : ADZ-S-10-0005 BAR M10x1

10 = 4 - 20 mA
20 = 0 - 10 V DC
40 = 0 - 5 V DC

Haris Sensor Technologies Private Limited

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