

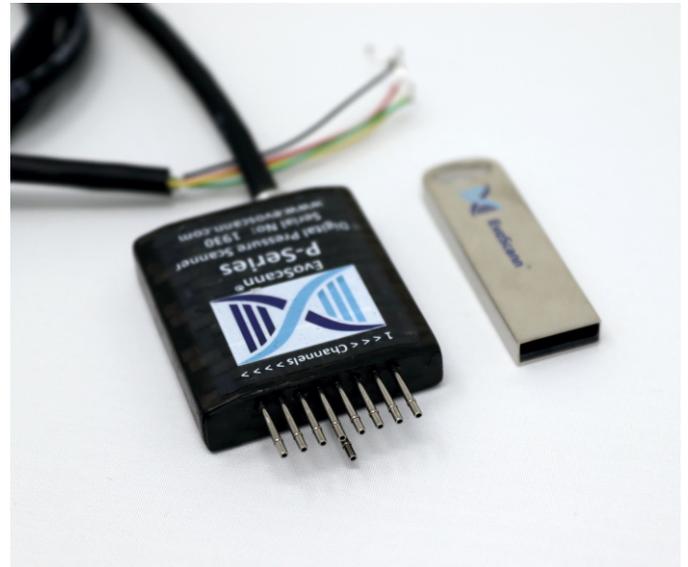
EvoScann®

P8-D TRUE DIFFERENTIAL PRESSURE SCANNER

EvoScann® P8-D provides high accuracy pressure scanning in a compact, rugged package to excel in the most demanding requirements.

KEY FEATURES:

- ✓ **NEW-IMPROVED accuracy** with output directly in engineering units
- ✓ Smallest, lightest pressure scanners available
- ✓ Multi-channel measurement
- ✓ True Differential measurement, shared static reference
- ✓ Lightweight carbon fibre external construction
- ✓ Integral microprocessor
- ✓ CANbus output
- ✓ Comprehensive range of industry-standard installation accessories
- ✓ Wide range of aerodynamic applications



EvoScann® P-Series are highly-miniaturised pressure scanners designed specifically to meet the stringent demands of the aerodynamic testing industry where development is rapid and continuous. Utilising the latest in miniature scanner technology, P-Series is at the forefront of pressure measurement in challenging aerodynamic locations. P-Series has been designed, from the start, with physical size, weight, accuracy and functionality in-mind and is available in a variety of configurations.

SMALL and LIGHT

In many aerodynamic testing applications, weight and size limits the ability to measure in difficult locations. Weighing-in at <15g and with compact dimensions, EvoScann® P8-D can be located within the tightest of spaces where rapid pressure mapping is needed, enabling aerodynamicists and engineers to quickly gather valuable data that has never been easy to access before. Measurement without compromise.

PLUG and PLAY

Using the latest high-speed data communications technology, EvoScann® P-Series is a pressure measurement and engineering unit converter in one package. With no requirement for external signal conditioning, EvoScann® P-Series transmits accurate, fast data, in engineering units, directly to the test article's central processing unit. Using a single cable to provide the power and transmit the data and with a choice of industry-standard connectors, EvoScann® P-Series scanner is ready to plug-and-play, producing high-speed synchronous data within seconds of connection.

ROBUST

EvoScann® P-Series is insignificantly light, has integral impact and splash-protection and can be fitted into the smallest of aerofoil or aerodynamic profiles with minimal external influences. A high maximum operating temperature means that even use in proximity to hot vehicle parts is possible, extending measurement to the most critical areas.

ACCURATE

High-performance piezo-resistive pressure sensors provide true differential pressure measurement to ensure the highest possible accuracy and evaluation of a complete test section in one compact device. Integrated temperature sensors provide useful data, but also apply temperature correction, at source, to ensure optimal performance and minimal ambient temperature effects.

Complementing the sensor is the widest range of pressure scanner accessories. Tubulations, tubing and tools help the user integrate EvoScann® P-Series quickly and effectively into the test article, enabling measurement and data acquisition to start quickly, making efficient use of expensive testing time and resources.

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SPECIFICATION

Inputs (Px/Ref): 9 x 0.040" tubulations

Full Scale Range: ± 20 mbar upto ± 200 mbar

Accuracy*: 0.1% FS* - ± 100 & 200 mbar ranges

Overpressure Capability: 0.15% FS* - ± 20mbar range

Resolution: 5x calibrated range

Resolution: 0.003 mbar @ 100 mbar range

0.006 mbar @ 200 mbar range

Drift: <1mbar / year (0.1mbar-20mbar range)

Construction materials:

Wetted parts: Stainless Steel / Aluminium / Silicon

Outer case: Carbon Fibre

Tubulations: Stainless Steel

Media: Air - Avoid liquid contaminants

Environmental Conditions:

Op. Temperature: -20°C to +90°C

Vibration: 9 G / 1000Hz (24 hr)

Communication Interface: Direct CANbus, optional CAN / USB Adapter

Scan Rate: Variable up to 1000Hz/Channel

Power: 9-36v DC

Current Consumption: <30mA

Electrical Connector: Deutsch, Harwin, Lemo or

Flying lead (no connectors)

Weight: <15g

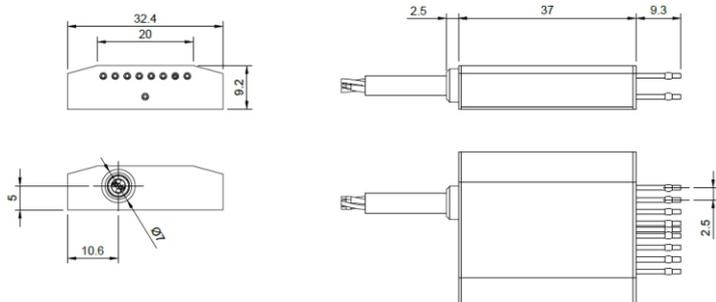
Dimensions: 36 x 33 x 8mm

*includes the effects of non-linearity, repeatability and hysteresis

Model Coding:

EvoScann®									
	Measurement: P - Pressure	Channels: 8	Mode: D - Differential	Range: ± 20 mbar ± 100mbar ± 200mbar	Comms: A - CANbus X - Other	Cable: 1000mm X - Custom	Connector: A - None B - Deutsch C - Lemo D - Harwin	Calibration: A - Standard X - Other	Special Instructions: A - None X - Check Notes

Dimensions



Options and Accessories:

- CANbus to USB adapter c/w software interface
- Full range of tubes, connectors and extension cables
- Special ranges / calibrations
- FIA Homologation pending