

EvoScann®

P-SERIES PRESSURE SCANNER

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

KEY FEATURES:

- ✓ Smallest, lightest pressure scanner available
- ✓ High accuracy multi-channel pressure measurement
- ✓ Absolute or Differential measurement
- ✓ Lightweight carbon fibre external construction
- ✓ Integral microprocessor
- ✓ High accuracy output directly in engineering units
- ✓ CANbus output
- ✓ Comprehensive range of industry-standard installation accessories
- ✓ Wide range of aerodynamic applications



EvoScann® P-series is a highly-miniaturised pressure scanner 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. The 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 for eight pressure channels.

SMALL and LIGHT

In many aerodynamic testing applications, weight and size limits the ability to measure in difficult locations. Weighing in at <25g and with compact dimensions, the EvoScann® P-Series 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 a remote converter or other hardware, the 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, the EvoScann® P-Series scanner is ready to plug-and-play, producing high-speed synchronous data within seconds of connection.

ROBUST

EvoScann® P-Series is designed to be 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

Eight high-performance piezo-electric pressure sensors ensure the highest accuracy and measurement of a complete aero section in one compact device. EvoScann® P-Series scanners can be supplied in Absolute or Differential modes across a wide selection of pressure ranges, including custom ranges. Integrated temperature sensors provide useful data, but also apply temperature correction to every pressure sensor, 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 (P8 Version)

Inputs (Px): 8 x 0.040"

Full Scale Ranges: 200-1200 mbar A

Accuracy: Absolute: 0.1%FS
Differential: 0.2%FS

Overpressure

Capability: 5x calibrated range

Resolution: 0.01 mbar (0.03 mbar at 1000Hz)

Drift: <1mbar / year

Construction materials:

Wetted parts: Stainless Steel / Aluminium / PEI

Outer case: Carbon Fibre

Tubulations: Stainless Steel

Media: Air - Avoid liquid contaminants

Environmental Conditions:

Op. Temperature: -40°C to +115°C
Vibration: 9 G / 1000Hz (24 hr)

Communication Interface: Direct CANbus, optional CAN / USB Adapter

Data Output Rate: Variable up to 1000Hz / Channel

Power: 8 -24v DC

Current Consumption: <30mA

Electrical Connector: Deutsch, Harwin, Lemo or Flying lead (no connectors)

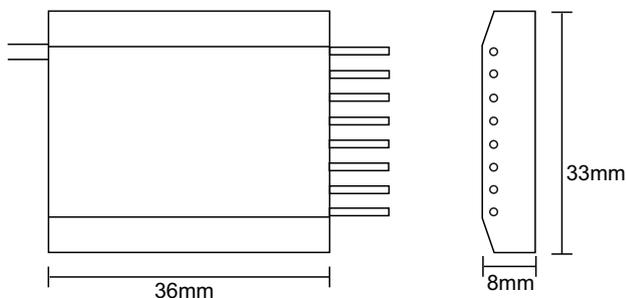
Weight: <25g

Dimensions: 36 x 33 x 8mm

Model Coding:

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	Measurement: P - Pressure	Channels: 8	Mode: A - Absolute B - Differential X - Other	Range: X - X	Comms: A - CANbus X - Other	Cable: 300mm 500mm 1000mm X - Custom	Connector: A - None B - Deutsch C - Lemo D - Harwin X - Other	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