

EvoScann®

P8-A ABSOLUTE MODE PRESSURE SCANNERS

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

KEY FEATURES:

- ✓ Smallest, lightest pressure scanners available
- ✓ Multi-channel measurement
- ✓ Absolute or calculated 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





In many aerodynamic testing applications, weight and size limits the ability to measure in difficult locations. Weighing-in at <14g and with compact dimensions, 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® P8-A is a pressure measurement and engineering unit converter in one package. With no requirement for external signal conditioning, EvoScann® P8-A 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® P8-A scanner is ready to plug-and-play, producing high-speed synchronous data within seconds of connection.

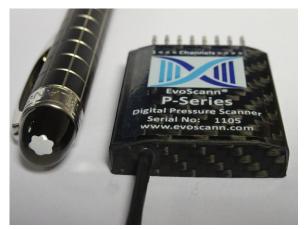
ROBUST

EvoScann® P8-A 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 ensure the highest accuracy and measurement of a complete aero section in one compact device. EvoScann® P8-A scanners can be supplied in Absolute or calculated 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

Inputs (Px): 0.040"

Full Scale Range: 200-1200 mbar A

600-1200 mbar A

Accuracy*: Absolute: 0.1%FS*

Calculated Differential: 0.2%FS*

(20-85°C)**

Overpressure

Capability: 5x calibrated range (6 bar)

Resolution: 0.01 mbar (0.03 mbar at

1000Hz)

Drift: <1mbar / year

Construction materials:

Measurement:

P - Pressure

Wetted parts: Stainless Steel / Aluminium /

Viton®

Outer case: Carbon Fibre
Tubulations: Stainless Steel

Media: Air - Avoid liquid contaminants *includes the effects of non-linearity, repeatability and hysteresis

Mode:

A - Absolute

X - Other

B- Differential

Range:

X - X

Comms:

X - Other

A - CANbus

** Expands to 0.25% (abs) & 0.5% (diff) to outer temperature limits

Channels:

8A

Environmental Conditions:

Scan Rate:

Op. Temperature: -20°C to +115°C **Vibration:** 9 G / 1000Hz (24 hr)

Communication Direct CANbus, optional **Interface:** CAN / USB Adapter

Power: 9-24v DC **Current Consumption:** <30mA

Electrical Connector: Deutsch, Harwin, Lemo or

Flying lead (no connectors)

Calibration:

X - Other

A - Standard

Special Instructions:

X - Check Notes

A - None

Variable up to 1000Hz/Channel

Weight: <149

Dimensions: 36 x 33 x 8mm

Connector.

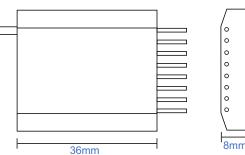
B - Deutsch

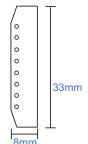
A - None

C - Lemo

Dimensions

Model Coding: EvoScann®





Options and Accessories:

Cable.

1000mm

X - Custom

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



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