

EVO SCANN® P-SERIES

8 CHANNEL TRUE DIFFERENTIAL PRESSURE SCANNER

PRODUCT OVERVIEW

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

The P-Series is a highly miniaturized pressure scanner designed specifically to meet the stringent demands of the aerodynamic testing industry where development is rapid and continuous. Utilizing the latest in miniature scanner technology, the P-Series is at the forefront of pressure measurement in challenging aerodynamic locations. The P-Series has been designed 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 just 0.5oz 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, the 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.

Rugged - EvoScann® P-Series is designed to be extremely light, has integral impact and splash-protection and can be fitted into the smallest of aerofoil 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 Piezoresistive pressure sensors ensure the highest accuracy and measurement of a complete aero section in one compact device. 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.

Accessories - Complementing the sensor is a wide 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.

Precision Sensors

Test Measurement OEM

Features

- Lightweight - 0.5oz
- CANbus output
- 0.5% Accuracy
- 9-24 VDC
- 15 to +255°F

Applications

- Aero
 - On Vehicle
 - Wind Tunnel
 - Wind Turbine
- Engine Test
 - Automotive
 - Aviation
- Satellite Launch Vehicles
 - Propellants
 - Chamber Pressure
- Flight Test
 - Hydraulic Systems
 - Flight Control Systems
- Drone/UAV/AUV/ROV
 - Hydraulic Systems
 - Avionics
- Motorsport

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SUB-MINIATURE HIGH PRECISION PRESSURE SCANNER

Specification

Specification (P8D Version)

Inputs (Px)
8 x 0.040"

Full Scale Ranges:
±100 mbar to ±200 mbar (±1.5 psi and ±3 psi)

Accuracy:
Differential: 0.5% FS
Including non-linearity, repeatability and hysteresis

Proof pressure:
85 psi

Resolution:
0.003 mbar@ 100 mbar range
0.006 mbar @ 200 mbar range

Drift:
<1 mbar / year

Long Term Stability:
<0.015 psi/year

Construction

Wetted parts:
Stainless steel/Aluminum/Polyetherimide (PEI)

Outer case:
Carbon Fiber

Tubulations:
Stainless Steel 304

Media:
Clean Dry Air- avoid liquid contaminants

Specification Continued

Environmental Conditions

Operating Temperature:
15 to 255°F

Vibration:
9G/1000Hz (24 hr)

Communication Interface

CANbus standard
CAN/USB Adapter, optional

Data Output Rate:
Variable up to 1000Hz/Channel

Power:
9-24 VDC

Current Consumption:
<30mA

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

Weight:
0.5oz

Dimensions:
1.4 x 1.3 x 0.3"

Options

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

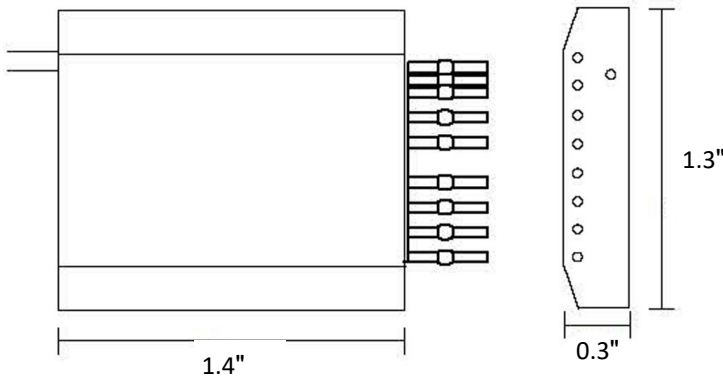
PMC Engineering adopts a continuous development program which sometimes necessitates specification changes without notice

ORDERING INFORMATION

Measurement	Channels	Mode:	Range:	Comms:	Cable:	Connector:	Calibration:	Special Instructions:
P-Pressure	8	D-Differential	X - X	A-CANbus X-Other	12" 20" 40" X - Custom	A-None B-Deutsch C-Lemo D-Harwin X-Other	A-Standard X-Other	A-None X - Check Notes

MECHANICAL DETAILS

Dimensions in inches



Precision Sensors
Test Measurement OEM

Sensors For:

- Temperature
- Acceleration
- Pressure
- Position
- Torque
- Speed
- Angle
- Force

Services For:

- OEM
- On-Time Delivery
- Custom Engineering
- Application Engineering

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