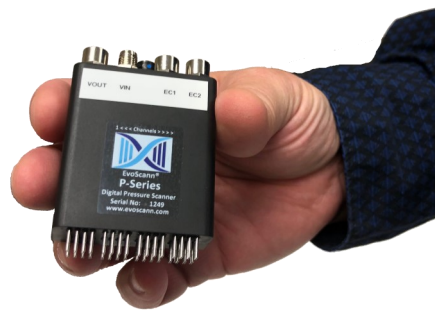


## EVO SCANN® P-SERIES

# 64 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 P64D 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 from the start, with physical size, weight, accuracy and functionality in mind.

**Small and Light** - In many aerodynamic testing applications, weight and size limits the ability to measure in difficult locations. Weighing in at just 3.9oz and with compact dimensions, the EvoScann® P64D can be located within the tightest of spaces where any detailed 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 external signal conditioning, the EvoScann® P64D transmits accurate, fast data, in engineering units, directly to the test article's central processing unit over CANbus. Using industry-standard connectors, the EvoScann® P64D scanner is ready to plug-and-play, producing high-speed synchronous data within seconds of connection.

**Rugged** - EvoScann® P64D is designed to be light, has integral impact and splash-protection installations with minimal external influences.

**Accurate** - Sixty-four high performance MEMS pressure sensors ensure the highest accuracy and measurement of a complete aero section in one compact device. EvoScann® P64D scanners are supplied in True Differential mode across a selection of pressure ranges, including custom ranges. Eight integrated board mounted temperature sensors provide useful data, but also apply temperature correction to each bank of pressure sensors to ensure optimal performance and minimal ambient temperature effects. For optimal accuracy ensure that the reference tubulation is connected to a stable static source.

**Accessories** - Complementing the sensor is a wide range of pressure scanner accessories. Tubulations, tubing and tools help the user integrate EvoScann® P64D quickly and effectively into the test article, enabling measurement and data acquisition to start quickly, making efficient use of expensive testing time and resources.



## Process Measure Control

### Features

- Compact Size
- CANbus output
- 0.5% Accuracy
- 9-24 VDC
- 15 to +200°F

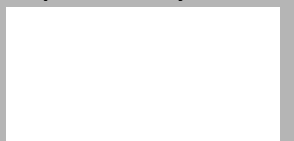
### Applications

- Wide range of Aerodynamic Applications
- Wind Tunnel
- Motorsport
- Wind Turbines

### Contact

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Represented by:



## Precision Pressure, Temperature and Level Measurement for Industry

**SUB-MINIATURE HIGH PRECISION PRESSURE SCANNER**

**Specification**

**Specification (P64D Version)**

**Inputs (Px)**  
64 x 0.040"

**Full Scale Ranges:**  
±100 mbar to ±200 mbar (±1.5 psi and ±3 psi)  
*Contact factory for additional ranges up to 15 psi*

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

**Overpressure Capability:**  
5x calibrated range

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

**Drift:**  
<1 mbar / year

**Construction**

**Wetted parts:**  
Stainless steel/Aluminum/Viton®

**Outer case:**  
Windform™ SP

**Tubulations:**  
Stainless Steel 304

**Media:**  
Clean Dry Air- avoid liquid contaminants

**Specification Continued**

**Environmental Conditions**

**Operating Temperature:**  
15 to 200°F

**Vibration:**  
9G/1000Hz (24 hr)

**Communication Interface**

Direct CANbus optional  
CAN/USB Adapter

**Data Output Rate:**  
Variable up to 500Hz/Channel

**Power:**  
9-24 VDC

**Current Consumption:**  
<70mA

**Electrical Connector:**  
Deutsch

**Weight:**  
3.9oz

**Dimensions:**  
2.75 (3.15\*) x 2.16 x 0.86"  
*\*includes tubulations*

**Options**

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

**Ordering Information**

EvoScann®	Measurement	Channels	Mode:	Range:	Comms:	Cable:	Connector:	Calibration:	Special Instructions:
	P-Pressure	64	D-Differential	A - ±100mb B - ±200mb X - Specials	A - CANbus	None	A-Deutsch X-Other	A-Standard X-Other	A-None X - Check Notes

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

**MECHANICAL DETAILS**

Dimensions in inches

