

High-accuracy CAN enabled 8-channel differential pressure scanner



- $\pm 0.05\%$ FS accuracy
- Up to 1000 Hz measurement rate per channel
- 24-bit resolution (16-bit over CAN)
- True differential sensing
- Pressure ranges: ± 2.5 kPa, ± 12.5 kPa
- USB or CAN data output
- Power over USB or CAN
- On-board accelerometer compensation

Building on the success of the SC-01 pressure scanner, the SC-02 delivers the same industry-leading measurement accuracy in a smaller package, with CAN connectivity for straightforward integration into vehicle data acquisition and logging systems. Our AeroDAQ software enables data acquisition over USB or CAN, using a PCAN interface, directly on Windows and macOS computers.

The SC-02 offers exceptional zero stability, with a total error band of just 0.05% of full scale over 24 hours, together with integrated acceleration compensation for accurate measurements in dynamic environments. Combined with high-speed USB and CAN interfaces and the supplied AeroDAQ software, it provides a compact, flexible solution for high-accuracy pressure measurement in both laboratory and on-vehicle applications.

Specification

Power and electrical

Power supply	5V (USB)
Current	200mA

Environmental

Compensated range	0 to 50°C
Operational range	-20 to +85°C
Humidity	0 to 95%
Vibration	15g

Pressure measurement performance

Pressure ranges	± 2.5 kPa, ± 12.5 kPa
Proof pressure	10kPa, 100kPa
Resolution	24-bit (16-bit CAN)
Accuracy	$\pm 0.05\%$ FS
Total error band	$\pm 0.15\%$ FS
Total error band after zero	$\pm 0.05\%$ FS
Measurement rate (per channel)	50–1000Hz over USB 1 - 200Hz over CAN

Mechanical

Pneumatic connectors	1.59mm tubulations x 9
Dimensions	69 x 73 x 34mm
Weight	100g

