

High-accuracy 8-channel differential pressure scanner



- $\pm 0.05\%$ full-scale accuracy
- 50–1000 Hz measurement rate per channel
- 24-bit resolution
- True differential sensing
- Pressure ranges: ± 2.5 kPa, ± 12.5 kPa
- USB or Ethernet (TCP) data output
- USB-powered operation (5V, 0.2A)

Built to minimise cost without sacrificing performance, the SC-01 measures true differential pressure at up to 1000 samples per second with outstanding accuracy. Following a device tare, the SC-01 delivers exceptional zero stability, achieving a total error band of just 0.05% of full scale over 24 hours. Data is available over USB or Ethernet (TCP), and the supplied logging software allows high-quality measurements to be acquired directly using any laptop or desktop computer.

Specification

Power and electrical

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|--------------|----------|
| Power supply | 5V (USB) |
| Current | 210mA |

Environmental

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

Pressure measurement performance

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|-----------------------------|-------------------------------|
| Pressure ranges | ± 2.5 kPa, ± 12.5 kPa |
| Proof pressure | 10kPa, 100kPa |
| Resolution | 24-bit |
| Accuracy | $\pm 0.05\%$ FS |
| Total error band | $\pm 0.10\%$ FS |
| Total error band after zero | $\pm 0.05\%$ FS |
| Measurement rate | 50–1000Hz (per chan.) |

Mechanical

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|----------------------|--------------------|
| Pneumatic connectors | 1.59mm tubulations |
| Dimensions | 124 x 78 x 32mm |
| Weight | 135g |

