

MUS-SERIES 8 CHANNEL PRESSURE SCANNER SYSTEM

SurreySensors

Ultraminiature, low-cost pressure scanner system. Ideal for use in UAV and motorsport applications or in model integration for wind tunnel use.

- Direct-to-digital pressure transducers each factory-calibrated and locally temperature compensated
- Compact, in-line package: less than 10 mm wide
- 64-channel configuration also available
- Tubulations suitable for 1 mm ID silicone hose



mus

Specification

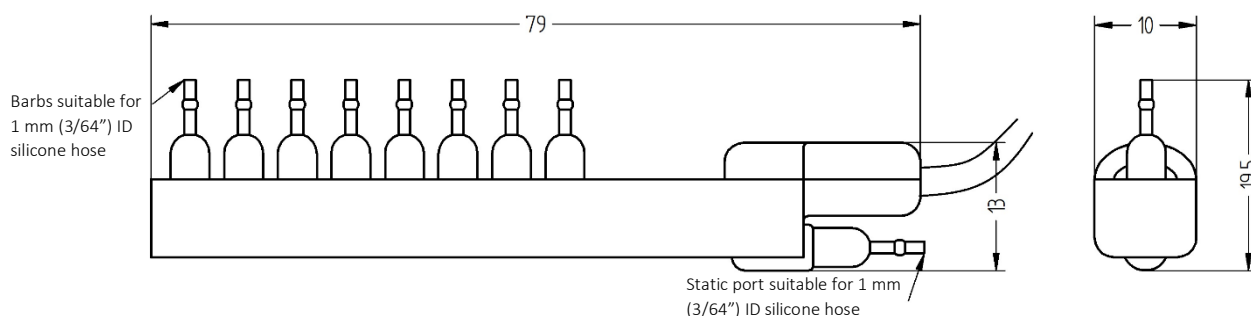
Connection	USB	CAN2B comms module
Pressure range	± 6.9 kPa FS	
Maximum overpressure	34 kPa	
Sensor repeatability ¹	± 0.024 % FS	
Sensor accuracy ² , inc. calibration	± 0.25 % FS	
Total error band after auto-zero ³	± 1.25 % FS	
Operational mode	Differential	
Operating temperature range	-40° to $+85^{\circ}$ C non-condensing	
Compensated temperature range	0° to $+50^{\circ}$ C non-condensing	
Storage temperature range	-40° to $+85^{\circ}$ C	
Vibration	Sensors rated to 10 g, 10 Hz to 2 kHz	
Shock	50 g, 6 ms duration	
Maximum relative humidity	95 %	
Communications interface	USB via connector	CAN2B via comms module
Power	95 mW	324 mW (whole system)
Supply voltage	5 Vdc regulated	7-36 Vdc
Data acquisition rate	Typ. 200 Hz simultaneous sampling.	
Digital resolution	24-bit	16-bit

¹ Includes errors due to pressure non-linearity, pressure hysteresis and non-repeatability.

² Includes errors due to pressure non-linearity, pressure hysteresis, non-repeatability and calibration uncertainty.

³ Total residual error after auto-zero, excluding residual temperature sensitivity.

Dimensions



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