



Thermal Sensor Compensation Module

1% error – 0-5V – 1kHz Compensation Module

TSC-MP-05-5



MODEL DEFINITION

Sensor input type: 4 wires.

Output type: 3 wires.

Compatible with all MHP/MMP Sensorade pressure sensors.

WIRE COLOR CODE

BLACK	GND
RED	5V
WHITE	Output



Please contact Sensorade for any additional information.

Remark : Sensors will need to be ordered with this compensation device already installed.

OVERVIEW

- Length : 26mm
- Outer diameter : 20mm
- Wide temperature compensation range up to 150°C
- Customized solution possible
- 0-5V output
- Output can be slightly adjusted for special requests
- Compatible with 100 to 3000 psi pressure sensor
- 1ms response time
- Cable: 6.5 mm sheath with 20 AWG wires (80°C Max)
- Wire length: 50cm

APPLICATIONS

- Instrumentation (ie: Automotive, Aviation, ...)
- Aerodynamic testing (ie: Wind tunnel)
- Industrial process monitoring
- Pumps and Compressors
- Leak detection
- Oil and gas
- Biomedical

CONTACT

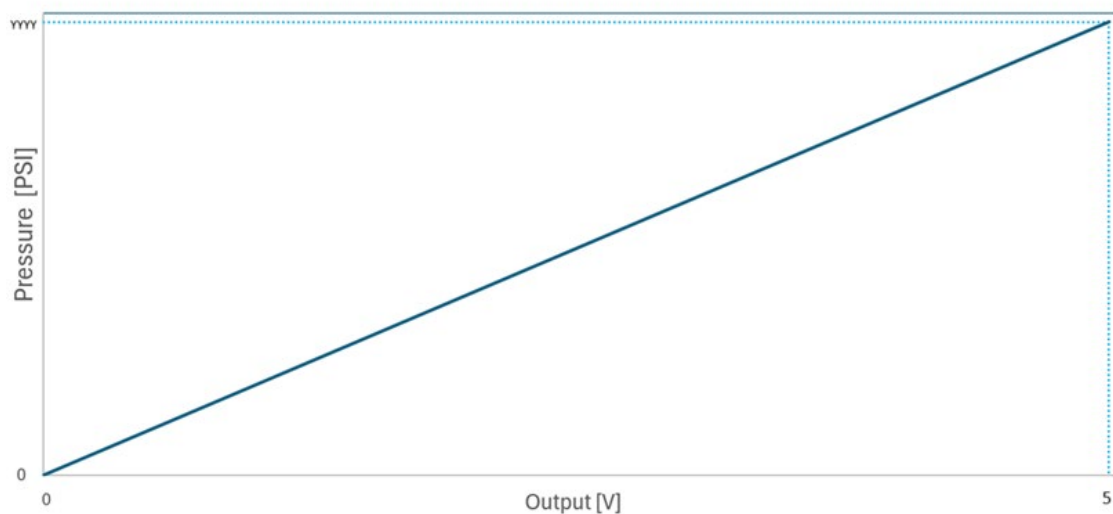
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Characteristic	Minimum	Typical	Maximum	Unit
Span ⁴	4.9	4.95	5	V
Zero Offset	-0,5		0,5	% FS
Total error band (On full compensation range)	-1		1	% FS
Accuracy BFS ¹	-0.2		0.2	% FS
Operating Temperature ²	-40		+80	°C
Compensated Temperature ²	+20		+150	°C
Supply Voltage ³	4.5	5	5.5	V
Supply current	2	3	5	mA
Load allowed	>2			kOhm
Startup time	2		5	ms
Response time		1		ms

Compensation Result:



Remarks:

- Unless otherwise specified: All above values are specified @25°C and with a power supply of 5V.
- System can be recalibrated by Sensorade.
- High robustness: Various fluids and dust resistant

1| Accuracy @30 Celsius; 2| TMCL qualification tests – JEDEC JESD22-A104 « temperature cycling » @ Tmax; 3| Output will change if V≠5V;
4| Span can be modified for a special request

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