

Data Sheet: TMAP Combo Pressure & Temperature Sensor

Part No: MSCS-4P-A05-N8

Series: MSCS

Pressure Reference: Absolute

Housing: 304L Stainless Steel

Operating Voltage: 5 VDC

Pressure Input: 0 to 5 BAR A

Pressure Output: 0.5-4.5 VDC

Accuracy: $\pm 1.0\%$ FS

Temperature Range: -40 to 140°C

NTC Specifications: $2.7k\Omega \pm 0.75\%$

NTC Encapsulation: Glass

Diaphragm: Stainless Steel

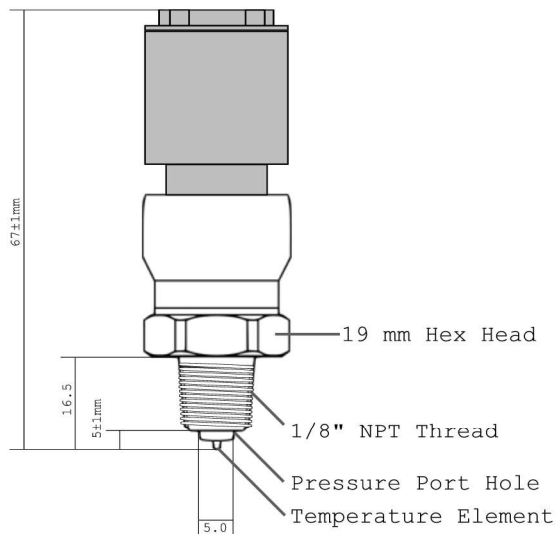
Seal: Fluorosilicone

Thread: 1/8" -27 NPT Male

Connection: Deutsch DTM04-4P

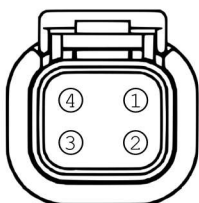
Mating Connector: DTM06-4S

Side Sensor View:



Note: Obstructing temperature element & pressure port hole will disrupt output accuracy.

Rear Sensor View:



- Pinout:
1. Pressure Output
 2. Temperature Output
 3. Signal Ground
 4. Power 5VDC

Linear Pressure Calibration:

Volts	Absolute
VDC	BAR / PSI / KPA
0.5	0 / 0 / 0
4.5	5 / 72.5/500

Temperature Calibration:

Temperature (°C/°F)	Resistance (Ω)	Voltage 1k Ω Pull-Up @ 5VDC
-40 / -40	34158	4.858
-35 / -31	26187	4.816
-30 / -22	20324	4.766
-25 / -13	15960	4.705
-20 / -4	12643	4.634
-15 / 5	10108	4.550
-10 / 14	8141	4.453
-5 / 23	6605	4.343
0 / 32	5389	4.217
5 / 41	4398	4.074
10 / 50	3597	3.912
15 / 59	2948	3.734
20 / 68	2424	3.540
25 / 77	2000	3.333
30 / 86	1656	3.117
35 / 95	1377	2.897
40 / 104	1150	2.674
45 / 113	964	2.454
50 / 122	812	2.241
55 / 131	687	2.036
60 / 140	583	1.841
65 / 149	497	1.660
70 / 158	426	1.494
75 / 167	366	1.340
80 / 176	316	1.201
85 / 185	273	1.072
90 / 194	238	0.961
95 / 203	207	0.857
100 / 212	181	0.766
105 / 221	159	0.686
110 / 230	140	0.614
115 / 239	123	0.548
120 / 248	109	0.491
125 / 257	97	0.442
130 / 266	85	0.392
135 / 275	75	0.349
140 / 284	67	0.314

NOTE: To ensure the lifespan of the sensor, avoid mounting locations subject to high vibrations or harmonics that may alter the output and increase internal diaphragm wear. Avoid mounting locations subject to higher than specified operating temperatures, post cooler mounting on forced induction only. Syltech takes no responsibility for any damage incurred by incorrect installation or use of this sensor. If unsure, please consult a qualified Auto Electrician for correct fitment and wiring. Off-road use only.