

Data Sheet: Combo Pressure & Temperature Sensor

Part No: MSCS-4P-G10-N8

Series: MSCS

Pressure Reference: Gauge

Housing: 304L Stainless Steel

Operating Voltage: 5 VDC

Pressure Input: 0 to 10 BAR G

Pressure Output: 0.5-4.5 VDC

Accuracy: $\pm 0.5\%$ FS

Temperature Range: -30 to 140°C

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

Diaphragm: Stainless Steel

Seal: Butt Seal, Laser Welded

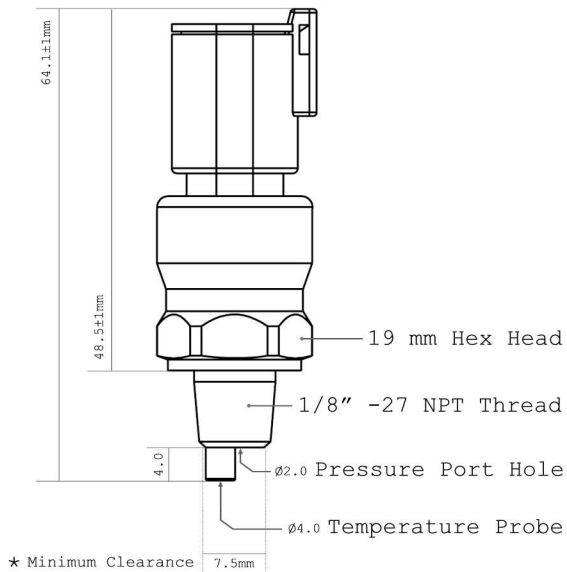
Thread: 1/8" -27 NPT Male

Max. Torque: 38NM ± 2 NM

Connection: Deutsch DTM04-4P

Mating Connector: DTM06-4S

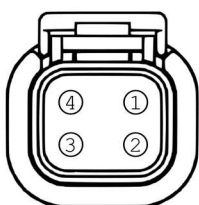
Side Sensor View:



* Important Note Prior to Installation:

To avoid damage to sensor, ensure threaded port meets minimum clearance and is free of obstructions. Obstructions to temperature probe & pressure port hole will disrupt output accuracy. Max. Torque: 38NM ± 2 NM

Rear Sensor View:



Pinout:

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

Linear Pressure Calibration:

Volts:	BAR / PSI:
0.5	0 / 0
4.5	10 / 145

Temperature Calibration:

Temperature (°C/°F)	Resistance (Ω)	Voltage (V) 1k Ω Pull-Up @ 5VDC
-30 / -22	50601	4.903
-25 / -13	36877	4.868
-20 / -4	27192	4.823
-15 / 5	20274	4.765
-10 / 14	15275	4.693
-5 / 23	11622	4.604
0 / 32	8926	4.496
5 / 41	6916	4.368
10 / 50	5404	4.219
15 / 59	4256	4.049
20 / 68	3378	3.858
25 / 77	2700	3.649
30 / 86	2172	3.424
35 / 95	1760	3.188
40 / 104	1434	2.946
45 / 113	1176	2.702
50 / 122	970	2.462
55 / 131	804	2.228
60 / 140	670	2.006
65 / 149	561	1.757
70 / 158	472	1.603
75 / 167	399	1.426
80 / 176	338	1.263
85 / 185	288	1.118
90 / 194	247	0.990
95 / 203	212	0.875
100 / 212	183	0.773
105 / 221	158	0.682
110 / 230	137	0.602
115 / 239	120	0.536
120 / 248	105	0.475
125 / 257	92	0.421
130 / 266	80	0.370
135 / 275	71	0.318
140 / 284	63	0.283

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. For best accuracy avoid use of thread adapters that push temperature probe tip out of the measured media flow. Off-road use only.