PN: MSCS-4P-G10-N8
Rev 1.03 202301
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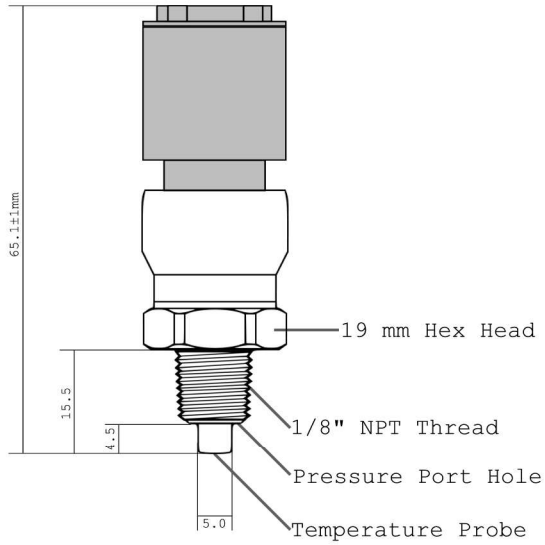
Data Sheet: Combo Pressure & Temperature Sensor

Part No: MSCS-4P-G10-N8

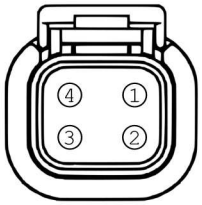
Series: MSCS
Pressure Reference: Gauge
Housing: 304L Stainless Steel
Operating Voltage: 5 VDC
Pressure Input: 0 to 10 BAR G
Pressure Output: 0.5-4.5 VDC
Accuracy: ±1.0% FS
Temperature Range: -40 to 140°C
NTC Specifications: 2.7kΩ ±0.75%
Diaphragm: Stainless Steel
Seal: Fluorosilicone
Thread: 1/8" -27 NPT Male
Connection: Deutsch DTM04-4P
Mating Connector: DTM06-4S

Side Sensor View:



Note: Obstructing temperature probe & 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:	BAR / PSI:
0.5	0 / 0
4.5	10 / 145

Temperature Calibration:

Temperature (°C/°F)	Resistance (Ω)	Voltage 1kΩ Pull-Up @ 5VDC
-40 / -40	**45660**	**4.893**
-35 / -31	35170	4.862
-30 / -22	**25840**	**4.814**
-25 / -13	19730	4.759
-20 / 4	**15210**	**4.692**
-15 / 5	11830	4.610
-10 / 14	**9270**	**4.513**
-5 / 23	7322	4.399
0 / 32	**5826**	**4.268**
5 / 41	4662	4.117
10 / 50	**3757**	**3.949**
15 / 59	3049	3.765
20 / 68	**2490**	**3.567**
25 / 77	2046	3.359
30 / 86	**1691**	**3.142**
35 / 95	1405	2.921
40 / 104	**1174**	**2.700**
45 / 113	985	2.481
50 / 122	**831**	**2.269**
55 / 131	704	2.066
60 / 140	**599**	**1.873**
65 / 149	512	1.693
70 / 158	**439**	**1.525**
75 / 167	378	1.372
80 / 176	**327**	**1.232**
85 / 185	283	1.103
90 / 194	**246**	**0.987**
95 / 203	214	0.881
100 / 212	**187**	**0.788**
105 / 221	164	0.704
110 / 230	**144**	**0.629**
115 / 239	127	0.563
120 / 248	**112**	**0.504**
125 / 257	99	0.450
130 / 266	**87**	**0.400**
135 / 275	78	0.362
140 / 284	**70**	**0.327**

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. Off-road use only.