

## K - SENSOR RANGE CHARTS

ABC123

## **Entire Article**

### 2000 Chevrolet Camaro

## ARTICLE BEGINNING

## 2000 ENGINE PERFORMANCE

General Motors Sensor Operating Range Charts - Cars

Alero, Bonneville, Camaro, Catera, Cavalier, Century, Corvette, DeVille, Eldorado, Firebird, Grand Am, Grand Prix, Impala, Intrigue, LeSabre, Lumina, Malibu, Metro, Monte Carlo, Park Avenue, Prism, Regal, Saturn, Seville, Sunfire

## INTRODUCTION

Sensor operating range information can help determine if a sensor is out of calibration. An out-of-calibration sensor may not set a trouble code, but it will cause drivability problems.

**NOTE:** Unless stated otherwise in test procedure, perform all voltage tests with a Digital Volt-Ohmmeter (DVOM) with a minimum 10-megohm input impedance.

ECT SENSOR RESISTANCE (3.0L - CATERA)

Temperature -  $\circ\text{F}$  ( $\circ\text{C}$ ) (1) Ohms

284 (140)	.....	68-74
248 (120)	.....	109-116
212 (100)	.....	182-191
176 (80)	.....	313-332
140 (60)	.....	573-618
104 (40)	.....	1118-1231
77 (25)	.....	1941-2173
68 (20)	.....	2351-2649
32 (0)	.....	5466-6326
14 (-10)	.....	8642-10, 152
-4 (-20)	.....	14, 096-16, 827
-40 (-40)	.....	40, 490-50, 136

(1) - Measure resistance across sensor terminals.

ECT & IAT SENSOR RESISTANCE (1.0L, 1.3L & 1.8L) (1)(2)

Temperature -  $\varnothing$ F ( $\varnothing$ C) (3) Ohms

176 (80)	.....	315
158 (70)	.....	435
140 (60)	.....	580
122 (50)	.....	810
113 (45)	.....	940
104 (40)	.....	1150
95 (35)	.....	1360

## K - SENSOR RANGE CHARTS

**ABC123**

**Entire Article**  
2000 Chevrolet Camaro

86 (30) .....	1600
77 (25) .....	2000
68 (20) .....	2400
59 (15) .....	3000
50 (10) .....	3600
41 (5) .....	4600
32 (0) .....	5700
23 (-5) .....	7400
14 (-10) .....	9800
5 (-15) .....	12,700
-4 (-20) .....	16,000

(1) - Engine Coolant Temperature (ECT) sensor.

(2) - Intake Air Temperature (IAT) sensor.

(3) - Measure resistance across sensor terminals.

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ECT, IAT & TFT SENSOR RESISTANCE (EXCEPT 1.0L, 1.3L & 1.8L)

(1) (2) (3)

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Temperature - °F (°C) (4) Ohms

212 (100) .....	177
194 (90) .....	241
176 (80) .....	332
158 (70) .....	467
140 (60) .....	667
122 (50) .....	973
113 (45) .....	1188
104 (40) .....	1459
95 (35) .....	1802
86 (30) .....	2238
77 (25) .....	2796
68 (20) .....	3520
59 (15) .....	4450
50 (10) .....	5670
41 (5) .....	7280
32 (0) .....	9420
23 (-5) .....	12,300
14 (-10) .....	16,180
5 (-15) .....	21,450
-4 (-20) .....	28,680
-22 (-30) .....	52,700
-40 (-40) .....	100,700

(1) - Engine Coolant Temperature (ECT) sensor.

(2) - Intake Air Temperature (IAT) sensor.

(3) - Transaxle Fluid Temperature (TFT) sensor.

(4) - Measure resistance across sensor terminals.

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IAT SENSOR RESISTANCE (3.0L - CATERA)

## K - SENSOR RANGE CHARTS

**ABC123**

**Entire Article**  
2000 Chevrolet Camaro

Temperature - °F (°C) (1) Ohms

284 (140)	.....	74-93
248 (120)	.....	114-141
212 (100)	.....	184-222
176 (80)	.....	312-370
140 (60)	.....	565-654
104 (40)	.....	1096-1238
77 (25)	.....	1900-2100
68 (20)	.....	2290-2551
32 (0)	.....	5119-5892
14 (-10)	.....	7943-9307
-4 (-20)	.....	12, 660-15, 120
-40 (-40)	.....	35, 140-43, 760

(1) - Measure resistance across sensor terminals.

FUEL LEVEL SENSOR VOLTAGE (5.7L - CORVETTE)

Fuel Level	Vol ts (Left Tank)	Vol ts (Right Tank)
Full	2.5	2.5
3/4	2.5	1.5
Half	2.5	Less Than 1.0
1/4	1.7	Less Than 1.0
Empty	Less Than 1.0	Less Than 1.0

FUEL PRESSURE SENSOR VOLTAGE (2.2L - CNG)

psi (kPa)	Vol ts
0 (0)	0.50
125 (862)	0.63
438 (3021)	0.94
750 (5172)	1.25
1063 (7331)	1.56
1375 (9483)	1.88
1688 (11, 641)	2.19
2000 (13, 793)	2.50
2313 (15, 952)	2.81
2625 (18, 103)	3.13
2938 (20, 262)	3.44
3250 (22, 414)	3.75
3563 (24, 572)	4.06
3875 (26, 724)	4.38
4000 (27, 586)	4.54

FUEL TEMPERATURE SENSOR (2.2L - CNG)

## K - SENSOR RANGE CHARTS

**ABC123**

**Entire Article**  
2000 Chevrolet Camaro

Temperature - °F (°C)	Ohms	Vol ts
302 (150)	77	0.14
248 (120)	147	0.26
212 (100)	240	0.40
176 (80)	414	0.66
158 (70)	556	0.84
140 (60)	758	1.08
122 (50)	1052	1.39
113 (45)	1249	1.57
104 (40)	1489	1.76
95 (35)	1784	1.97
86 (30)	2148	2.20
77 (25)	2600	2.43
68 (20)	3167	2.68
59 (15)	3881	2.93
50 (10)	4764	3.18
41 (5)	5933	3.42
32 (0)	7407	3.65
23 (-5)	9311	3.86
-4 (-20)	19,326	4.38
-40 (-40)	57,536	4.77
-58 (-50)	104,390	4.87

### MAP SENSOR VOLTAGE (1.9L)

Altitude Feet	(1) Vol ts
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Below 1000	3.8-5.5
1000-2000	3.6-5.3
2000-3000	3.5-5.1
3000-4000	3.3-5.0
4000-5000	3.2-4.8
5000-6000	3.0-4.6
6000-7000	2.9-4.5
7000-8000	2.8-4.3
8000-9000	2.6-4.2
9000-10,000	2.5-4.0

(1) - Measured at sensor or as seen on scan tool.

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### OXYGEN SENSOR VOLTAGE

Condition	(1) Vol ts
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Except Metro & Prism

Lean	0.1
Rich	1.0
Metro & Prism	

## K - SENSOR RANGE CHARTS

**ABC123**

**Entire Article**

2000 Chevrolet Camaro

Lean .....	0. 1
Ri ch .....	0. 9

(1) - Measure voltage between O2 sensor ground and signal terminals at PCM.

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**END OF ARTICLE**