

# K - SENSOR RANGE CHARTS

## 1992 Infiniti G20

1990-92 ENGINE PERFORMANCE  
Infiniti Sensor Operating Range Charts

G20, M30, Q45

### 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 driveability problems.

NOTE: All voltage tests should be performed with a Digital Volt-Ohmmeter (DVOM) with a minimum 10-megohm input impedance, unless specifically stated differently in test procedure.

AIRFLOW METER VOLTAGE TABLE (1)

Application	Terminal No	Volts
G20 .....	"D" .....	1.3-1.7
M30 .....	"A" .....	1.0-1.3
Q45 .....	1 .....	1.0-1.4

(1) - Measure voltage between ground and indicated airflow meter terminal. Voltage should increase with an increase in airflow (RPM). DO NOT run engine at high RPM under no load condition.

COOLANT TEMP SENSOR RESISTANCE TABLE (1)

Temperature °F (°C)	Ohms
68 (20) .....	2100-2900
122 (50) .....	680-1000
176 (80) .....	300-330

(1) - Measure resistance across sensor terminals.

EXHAUST GAS TEMP SENSOR RESISTANCE TABLE (1) (2)

Temperature °F (°C)	Ohms
212 (100) .....	76,770-93,830

(1) - California models only.  
(2) - Measure resistance across sensor terminals.

FUEL TEMP SENSOR RESISTANCE TABLE (M30) (1)

Temperature °F (°C)	Ohms
68 (20) .....	2100-2900
122 (50) .....	680-1000

176 (80) ..... 300-330

- (1) - Measure resistance between sensor terminals at pressure regulator.
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OXYGEN SENSOR VOLTAGE TABLE (1)

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Condition	Volts
M30 (Titania)	
Lean .....	0
Rich .....	1.5
G20 & Q45 (Zirconia) (2)	
Lean .....	0-0.3
Rich .....	0.6-1.0

- (1) - Measure voltage between oxygen sensor terminal and ground.  
(2) - Measure heater resistance between terminals "A" and "C" at sensor. Resistance should be between 3-1000 ohms.
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THROTTLE POSITION SENSOR RESISTANCE TABLE (1)

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Position	Ohms
G20	
Closed Throttle .....	2000
Partially Open .....	2000-10,000
Wide Open Throttle .....	10,000
M30	
Closed Throttle .....	1000
Partially Open .....	1000-9000
Wide Open Throttle .....	9000
Q45	
Closed Throttle .....	400
Partially Open .....	400-5000
Wide Open Throttle .....	5000

- (1) - Measure resistance between terminals "B" and "C" at sensor.
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THROTTLE VALVE SWITCH RESISTANCE TABLE (1)

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Position	Ohms
Closed Throttle .....	Continuity
Open Throttle .....	No Continuity

- (1) - Measure resistance between terminals "B" and "C" at sensor.
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