

**Mode \$06 data definitions for GM vehicles using CAN (GMLAN) diagnostic data link**

<b>OBD Monitor ID (OBDMID)</b>	<b>Test ID (TID)</b>	<b>Units and Scaling ID (UASID)</b>	<b>Description</b>	<b>Range</b> <i>For Information ONLY.</i> Source information is ISO-15031-5 document	<b>Resolution</b> <i>For Information ONLY.</i> Source information is ISO-15031-5 document
			<b>Oxygen Sensor Monitor Bank 1 Sensor 1</b>		
01	81	1E	Equivalence Ratio (Lambda) - Measured Actual	0.000 to 1.999 λ	0.0000305 λ / bit
01	82	1E	Equivalence Ratio (Lambda) - Commanded Set Point	0.000 to 1.999 λ	0.0000305 λ / bit
01	83	2F	Dynamic Response Performance ( Normalized )	0.00 to 655.35 %	0.01 % / bit
01	84	85	Secondary Sensor Lambda Trim Correction of Primary Sensor	-0.999 to 0.999	0.0000305 / bit
			<b>Oxygen Sensor Monitor Bank 1 Sensor 2</b>		
02	01	0A	Rich to Lean Sensor Threshold Voltage	0.0000 to 7.9900 V	0.122 mv / bit
02	02	0A	Lean to Rich Sensor Threshold Voltage	0.0000 to 7.9900 V	0.122 mv / bit
02	07	0A	Minimum Sensor Voltage Achieved	0.0000 to 7.9900 V	0.122 mv / bit
02	08	0A	Maximum Sensor Voltage Achieved	0.0000 to 7.9900 V	0.122 mv / bit
			<b>Oxygen Sensor Monitor Bank 2 Sensor 1</b>		
05	81	1E	Equivalence Ratio (Lambda) - Measured Actual	0.000 to 1.999 λ	0.0000305 λ / bit
05	82	1E	Equivalence Ratio (Lambda) - Commanded Set Point	0.000 to 1.999 λ	0.0000305 λ / bit
05	83	2F	Dynamic Response Performance ( Normalized )	0.00 to 655.35 %	0.01 % / bit
05	84	85	Secondary Sensor Lambda Trim Correction of Primary Sensor	-0.999 to 0.999	0.0000305 / bit
			<b>Oxygen Sensor Monitor Bank 2 Sensor 2</b>		
06	01	0A	Rich to Lean Sensor Threshold Voltage	0.0000 to 7.9900 V	0.122 mv / bit
06	02	0A	Lean to Rich Sensor Threshold Voltage	0.0000 to 7.9900 V	0.122 mv / bit
06	07	0A	Minimum Sensor Voltage Achieved	0.0000 to 7.9900 V	0.122 mv / bit

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06	08	0A	Maximum Sensor Voltage Achieved	0.0000 to 7.9900 V	0.122 mv / bit
			<b>Catalyst Monitor</b>		
21	84	06	Catalyst Test Bank 1 ( normalized )	0.000 to 19.988	0.000305 / bit
22	84	06	Catalyst Test bank 2 ( normalized )	0.000 to 19.988	0.000305 / bit
			<b>EVAP Monitor (Cap Off)</b>		
39	80	81	EVPD Weak Vacuum Test - Gross Leak	-32768 to +32767	1 count / bit
			<b>EVAP Monitor 0.020"</b>	<b>EWMA = Exponentially Weighted Moving Average</b> <b>EONV = Engine Off Natural Vacuum</b>	
3C	80	05	EONV NV 0.020 Test - EWMA	0.000 to 1.999	0.0000305 / bit
			<b>Purge Flow Monitor</b>		
3D	88	84	Purge Valve Flow Test - Stuck Open / Leak	-32.768 to +32.767	0.001 count / bit
3D	8C	81	Canister Vent Valve Test - Stuck Closed / Restricted	-32768 to +32767	1 count / bit
			<b>Oxygen Sensor Heater Monitor Bank 1 Sensor 1</b>		
41	82	2F	Heater Power ( normalized )	0.00 to 655.35 %	0.01 % / bit
			<b>Oxygen Sensor Heater Monitor Bank 1 Sensor 2</b>		
42	81	14	Sensor Element Impedance	0 to 65535 Ohms	1 Ohm / bit

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			<b>Oxygen Sensor Heater Monitor Bank 2 Sensor 1</b>		
45	82	2F	Heater Power ( normalized )	0.00 to 655.35 %	0.01 % / bit
			<b>Oxygen Sensor Heater Monitor Bank 2 Sensor 2</b>		
46	81	14	Sensor Element Impedance	0 to 65535 Ohms	1 Ohm / bit
			<b>Fuel System Monitor Bank 1</b>		
81	80	AF	Additive Fuel (Offset) Correction	-327.68 to +327.67 %	0.01 % / bit
81	82	05	Multiplicative Fuel (Slope) Correction	0.000 to 1.999	0.0000305 / bit
			<b>Fuel System Monitor Bank 2</b>		
82	80	AF	Additive Fuel Offset Correction	-327.68 to +327.67 %	0.01 % / bit
82	82	05	Multiplicative Fuel Slope Correction	0.000 to 1.999	0.0000305 / bit
			<b>Misfire Cylinder 1 data</b>		
A2	0B	24	EWMA (Exponentially Weighted Moving Average) misfire counts for the last 10 driving cycles	0 to 65535 counts	1 count / bit
A2	0C	24	Misfire counts for the last / current driving cycles	0 to 65535 counts	1 count / bit
			<b>Misfire Cylinder 2 data</b>		

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A3	0B	24	EWMA (Exponentially Weighted Moving Average) misfire counts for the last 10 driving cycles	0 to 65535 counts	1 count / bit
A3	0C	24	Misfire counts for the last / current driving cycles	0 to 65535 counts	1 count / bit
			<b>Misfire Cylinder 3 data</b>		
A4	0B	24	EWMA (Exponentially Weighted Moving Average) misfire counts for the last 10 driving cycles	0 to 65535 counts	1 count / bit
A4	0C	24	Misfire counts for the last / current driving cycles	0 to 65535 counts	1 count / bit
			<b>Misfire Cylinder 4 data</b>		
A5	0B	24	EWMA (Exponentially Weighted Moving Average) misfire counts for the last 10 driving cycles	0 to 65535 counts	1 count / bit
A5	0C	24	Misfire counts for the last / current driving cycles	0 to 65535 counts	1 count / bit
			<b>Misfire Cylinder 5 data</b>		
A6	0B	24	EWMA (Exponentially Weighted Moving Average) misfire counts for the last 10 driving cycles	0 to 65535 counts	1 count / bit