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

OBD Monitor ID (OBDMID)	Test ID (TID)	Units and Scaling ID (UASID)	Description	Range For Information ONLY. Source information is ISO-15031-5 document	Resolution For Information ONLY. Source information is ISO-15031-5 document	Associated DTC
			Oxygen Sensor Monitor Bank 1 Sensor 1			
01	**83**	**05**	Dynamic Response Performance (Normalized)	0.0 to 1.999	0.0000305 / bit	P0133
			Oxygen Sensor Monitor Bank 1 Sensor 2			
02	**01**	**0A**	Rich to Lean Sensor Threshold Voltage	0.0 to 7.99 V	0.122 mv / bit	-
02	**02**	**0A**	Lean to Rich Sensor Threshold Voltage	0.0 to 7.99 V	0.122 mv / bit	-
02	**07**	**0A**	Minimum Sensor Voltage Achieved	0.0 to 7.99 V	0.122 mv / bit	P0137
02	**08**	**0A**	Maximum Sensor Voltage Achieved	0.0 to 7.99 V	0.122 mv / bit	P0138
02	**81**	**0A**	Equivalence Ratio (Lambda) - Measured Actual	0.0 to 7.99 V	0.122 mv / bit	P2270
02	**82**	**0A**	Equivalence Ratio (Lambda) - Commanded Set Point	0.0 to 7.99 V	0.122 mv / bit	P2271
02	**83**	**0A**	Dynamic Response Performance (Normalized)	0.0 to 7.99 V	0.122 mv / bit	P2271
			Catalyst Monitor			
21	**84**	**05**	Catalyst Test Bank 1 (normalized)	0.0 to 1.999	0.0000305 / bit	P0420
			EVAP Monitor (Cap Off)			
39	**80**	**81**	EVPD Weak Vacuum Test - Gross Leak	–32768 to +32767	1.0 / bit	P0455
			EVAP Monitor 0.020"	**EWMA** = Exponentially Weighted Moving Average **EONV** = Engine Off Natural Vacuum		
3C	**80**	**05**	EONV NV 0.020 Test - EWMA	0.0 to 1.999	0.0000305 / bit	P0442
			Purge Flow Monitor			
3D	**88**	**81**	Purge Valve Flow Test - Stuck Open / Leak	–32768 to +32767	1.0 / bit	P0496
3D	**8C**	**81**	Canister Vent Valve Test - Stuck Closed / Restricted	–32768 to +32767	1.0 / bit	P0446

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			Oxygen Sensor Heater Monitor Bank 1 Sensor 1			
41	**85**	**16**	Heater Temperature	-40 to 6513.5 °C	0.1 °C per bit - 40°C	P0135
			Oxygen Sensor Heater Monitor Bank 1 Sensor 2			
42	**81**	**14**	Sensor Element Impedance	0 to 65535 Ohms	1 Ohm / bit	P0141
			Fuel System Monitor Bank 1			
81	**80**	**AF**	Additive Fuel (Offset) Correction	–327.68 to +327.67 %	0.01 % / bit	P2187, P2188
81	**82**	**05**	Multiplicative Fuel (Slope) Correction	0.0 to 1.999	0.0000305 / bit	P2177, P2178
			Misfire Cylinder 1 data			
A2	**0B**	**24**	EWMA (Exponentially Weighted Moving Average) misfire counts for the last 10 driving cycles	0 to 65535 counts	1 count / bit	P0301
A2	**0C**	**24**	Misfire counts for the last / current driving cycles	0 to 65535 counts	1 count / bit	P0301
	Note order for Misfire OBDMID is firing order rather than cylinder order - this is as transmitted for MY07 (not expected) (accepted by CARB)					
			Misfire Cylinder 3 data			
A3	**0B**	**24**	EWMA (Exponentially Weighted Moving Average) misfire counts for the last 10 driving cycles	0 to 65535 counts	1 count / bit	P0303
A3	**0C**	**24**	Misfire counts for the last / current driving cycles	0 to 65535 counts	1 count / bit	P0303
			Misfire Cylinder 4 data			
A4	**0B**	**24**	EWMA (Exponentially Weighted Moving Average) misfire counts for the last 10 driving cycles	0 to 65535 counts	1 count / bit	P0304
A4	**0C**	**24**	Misfire counts for the last / current driving cycles	0 to 65535 counts	1 count / bit	P0304

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			Misfire Cylinder 2 data			
A5	**0B**	**24**	EWMA (Exponentially Weighted Moving Average) misfire counts for the last 10 driving cycles	0 to 65535 counts	1 count / bit	P0302
A5	**0C**	**24**	Misfire counts for the last / current driving cycles	0 to 65535 counts	1 count / bit	P0302