

Nachfolgend sind die Standardanzeigen des OBDII-Standards aufgeführt. Sie können sehen, welche Anzeigen vom UltraGauge EM Plus unterstützt werden – aber nur, wenn das Zielfahrzeug die Anzeige ebenfalls unterstützt. Eine ausführliche deutsche Beschreibung der Daten finden Sie bspw. im Buch [Fahrzeugdiagnose mit OBD II](#)

PID (Hex)	Description	Support Yes/No	
00	Supported next 32 PIDs	No	
01	System status	No	
02	DTC that caused freeze frame data storage	No	
03	Fuel System Status	Yes	
04	Calculated % Engine Load	Yes	
05	Coolant Temperature	Yes	
06	Short Term Fuel Trim - Bank 1	Yes	
07	Long Term Fuel Trim - Bank 1	Yes	
08	Short Term Fuel Trim - Bank 2	Yes	
09	Long Term Fuel Trim - Bank 2	Yes	
0A	Fuel Pressure	Yes	
0B	Intake Manifold Absolute Pressure (MAP)	Yes	
0C	Engine RPM	Yes	
0D	Vehicle Speed	Yes	
0E	Ignition Timing Advance - #1 Cylinder	Yes	
0F	Intake Air Temperature (IAT)	Yes	
10	Air Flow Rate - Mass Air Flow (MAF)	Yes	
11	Absolute Throttle Position %	Yes	
12	Commanded Secondary Air Status	No	
13	Oxygen Sensors Presence	No	
Abbr1	O2	Abbr2	Loc
TData	07DF 0113 0000		
TCtrl	82	RCtrl	21
RPOS	1808	MTCH	411300
MATH	X: 0001	/: 0001	+: 0000
Output Format	00	Ave	00
Left/Right	20		

Range	Bit Mapped 8-bit value (0-F)		
Description	For vehicles with 1 or 2 banks of sensors (common). Each of the 8 bits corresponds to a O2 Sensor location. If the Sensor is present, the bit will be set to 1. The lower the bit position, the closer to the engine for that bank		
	<b>Bit position</b>	<b>O2 Sensor</b>	
	0	B1S1	
	1	B1S2	
	2	B1S3	
	3	B1S4	
	4	B2S1	
	5	B2S2	
	6	B2S3	
7	B2S4		

14	O2 Voltage B1S1	Yes
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14b	Short term fuel trim % for B1S1	No
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Abbr1	O2	Abbr2	B1S1
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TData	07DF 0114 0000		
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TCtrl	82	RCtrl	21
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RPOS	2008	MTCH	411400
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MATH	X: 0064	/: 0080	+: FF9C
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Output Format	00	Ave	00
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Left/Right	41		
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Range	(Lean) -100% to 99.2% (Rich)		
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Description	Short term fuel trim % for Bank 1, O2 Sensor 1. Reports constant 99.2 if No t supported by vehicle		
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15	O2 Voltage B1S2	Yes
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15b	Short term fuel trim % for B1S2	No
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Abbr1	O2	Abbr2	B1S2
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TData	07DF 0115 0000		
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TCtrl	82	RCtrl	21
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RPOS	2008	MTCH	411500
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MATH	X:	0064	/:	0080	+	FF9C
Output Format	00	Ave	00			
Left/Right	41					
Range	(Lean) -100% to 99.2% (Rich)					
Description	Short term fuel trim % for Bank 1, O2 Sensor 2. Reports constant 99.2 if No t supported by vehicle					
16	O2 Voltage B1S3 or B2S1					No
Abbr1	O2	Abbr2	B2S1			
TData	07DF 0116 0000					
TCtrl	82	RCtrl	21			
RPOS	1808	MTCH	411600			
MATH	X:	0001	/:	00C8	+	0000
Output Format	00	Ave	00			
Left/Right	22					
Range	0V to 1.25V					
Description	Oscillating output voltage of O2 sensor ( No t used for wide band O2 sensors					
16b	Short term fuel trim % for B1S3 or B2S1					No
Abbr1	O2	Abbr2	B2S1			
TData	07DF 0116 0000					
TCtrl	82	RCtrl	21			
RPOS	2008	MTCH	411600			
MATH	X:	0064	/:	0080	+	FF9C
Output Format	00	Ave	00			
Left/Right	41					
Range	(Lean) -100% to 99.2% (Rich)					
Description	Short term fuel trim % for B1S3 or B2S1 O2 Sensor. Reports constant 99.2 if No t supported by vehicle					
17	O2 Voltage B1S4 or B2S2					No
Abbr1	O2	Abbr2	B2S2			
TData	07DF 0117 0000					

TCtrl	82	RCtrl	21
RPOS	1808	MTCH	411700
MATH	X 0001	/ 00C8	+ 0000
Output Format	00	Ave	00
Left/Right	22		
Range	0V to 1.25V		
Description	Oscillating output voltage of O2 sensor ( No t used for wide band O2 sensors		
17b	Short term fuel trim % for B1S4 or B2S2		No
Abbr1	O2	Abbr2	B2S2
TData	07DF 0117 0000		
TCtrl	82	RCtrl	21
RPOS	2008	MTCH	411700
MATH	X: 0064	/: 0080	+: FF9C
Output Format	00	Ave	00
Left/Right	41		
Range	(Lean) -100% to 99.2% (Rich)		
Description	Short term fuel trim % for B1S4 or B2S2 O2 Sensor. Reports constant 99.2 if No t supported by vehicle		
18	O2 Voltage B2S1 or B3S1		Yes
18b	Short term fuel trim % for B2S1 or B3S1		No
Abbr1	O2	Abbr2	B2S1
TData	07DF 0118 0000		
TCtrl	82	RCtrl	21
RPOS	2008	MTCH	411800
MATH	X: 0064	/: 0080	+: FF9C
Output Format	00	Ave	00
Left/Right	41		
Range	(Lean) -100% to 99.2% (Rich)		
Description	Short term fuel trim % for B2S1 or B3S1 O2 Sensor. Reports constant 99.2 if No t supported by vehicle		

19	O2 Voltage B2S2 or B3S2				Yes
19b	Short term fuel trim % for B2S2 or B3S2				No
Abbr1	O2	Abbr2	B2S2		
TData	07DF 0119 0000				
TCtrl	82	RCtrl	21		
RPOS	2008	MTCH	411900		
MATH	X: 0064	/: 0080	+: FF9C		
Output Format	00	Ave	00		
Left/Right	41				
Range	(Lean) -100% to 99.2% (Rich)				
Description	Short term fuel trim % for B2S2 or B3S2 O2 Sensor. Reports constant 99.2 if No t supported by vehicle				
1A	O2 Voltage B2S3 or B4S1				No
Abbr1	O2	Abbr2	B2S3		
TData	07DF 011A 0000				
TCtrl	82	RCtrl	21		
RPOS	1808	MTCH	411A00		
MATH	X 0001	/ 00C8	+ 0000		
Output Format	00	Ave	00		
Left/Right	22				
Range	0V to 1.25V				
Description	Oscillating output voltage of O2 sensor ( No t used for wide band O2 sensors				
1Ab	Short term fuel trim % for B2S3 or B4S1				No
Abbr1	O2	Abbr2	B2S3		
TData	07DF 011A 0000				
TCtrl	82	RCtrl	21		
RPOS	2008	MTCH	411A00		
MATH	X: 0064	/: 0080	+: FF9C		
Output Format	00	Ave	00		
Left/Right	41				
Range	(Lean) -100% to 99.2% (Rich)				

Description	Short term fuel trim % for B2S3 or B4S1 O2 Sensor. Reports constant 99.2 if No t supported by vehicle			
1B	O2 Voltage B2S4 or B4S2			No
Abbr1	O2	Abbr2	B2S4	
TData	07DF 011B 0000			
TCtrl	82	RCtrl	21	
RPOS	1808	MTCH	411B00	
MATH	X	0001	/	00C8 + 0000
Output Format	00	Ave	00	
Left/Right	22			
Range	0V to 1.25V			
Description	Oscillating output voltage of B2S4 or B4S2 O2 sensor ( No t used for wide band O2 sensors			
1Bb	Short term fuel trim % for B2S4 or B4S2			No
Abbr1	O2	Abbr2	B2S4	
TData	07DF 011B 0000			
TCtrl	82	RCtrl	21	
RPOS	2008	MTCH	411B00	
MATH	X:	0064	/:	0080 +: FF9C
Output Format	00	Ave	00	
Left/Right	41			
Range	(Lean) -100% to 99.2% (Rich)			
Description	Short term fuel trim % for B2S4 or B4S2 O2 Sensor. Reports constant 99.2 if No t supported by vehicle			
1C	OBD requirements to which engine is certified			No
Abbr1	OBD	Abbr2		
TData	07DF 011C 0000			
TCtrl	82	RCtrl	21	
RPOS	1808	MTCH	411C00	
MATH	X:	0001	/:	0001 +: 0000

Output Format	0F	Ave	00																		
Left/Right	20																				
Range	Hexadecimal Code from 00 to FF																				
Description	Static value representing OBD requirements to which vehicle or engine is certified. This is already printed on the vehicle's emission label																				
1D	Oxygen Sensors Presence		No																		
Abbr1	O2	Abbr2	Loc																		
TData	07DF 011D 0000																				
TCtrl	82	RCtrl	21																		
RPOS	1808	MTCH	411D00																		
MATH	X: 0001	/: 0001	+: 0000																		
Output Format	00	Ave	00																		
Left/Right	20																				
Range	Bit Mapped 8-bit value 0-F																				
Description	<p>For vehicles with 3 or 4 banks of sensors (No t common) Each of the 8 bits corresponds to a O2 Sensor location. If the Sensor is present, the bit will be set to 1. The lower the bit position, the closer to the engine for that bank</p> <table border="1"> <thead> <tr> <th>Bit position</th> <th>O2 Sensor</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>B1S1</td> </tr> <tr> <td>1</td> <td>B1S2</td> </tr> <tr> <td>2</td> <td>B2S1</td> </tr> <tr> <td>3</td> <td>B2S2</td> </tr> <tr> <td>4</td> <td>B3S1</td> </tr> <tr> <td>5</td> <td>B3S2</td> </tr> <tr> <td>6</td> <td>B4S1</td> </tr> <tr> <td>7</td> <td>B4S2</td> </tr> </tbody> </table>			Bit position	O2 Sensor	0	B1S1	1	B1S2	2	B2S1	3	B2S2	4	B3S1	5	B3S2	6	B4S1	7	B4S2
Bit position	O2 Sensor																				
0	B1S1																				
1	B1S2																				
2	B2S1																				
3	B2S2																				
4	B3S1																				
5	B3S2																				
6	B4S1																				
7	B4S2																				
1E	Power Take Off (PTO) Status		No																		
Abbr1	PTO	Abbr2																			
TData	07DF 011E 0000																				

TCtrl	82	RCtrl	21
RPOS	1801	MTCH	411E00
MATH	X: 0001	/: 0001	+: 0000
Output Format	0D	Ave	00
Left/Right	30		
Range	0n or off		
Description	PTO No t active: Off PTO active: On		
1F	Time Since Engine Start		No
Abbr1	Tme	Abbr2	ES
TData	07DF 011F 0000		
TCtrl	82	RCtrl	21
RPOS	1810	MTCH	411F00
MATH	X: 0001	/: 0001	+: 0000
Output Format	0E (Time)	Ave	00
Left/Right	50		
Range	00:00 to 18:12 (18 hours, 12 minutes)		
Description	Increments once the engine is running. Resets to zero during every control module power-up and when entering ignition on, engine off position		
20	Supported next 32 PIDs		No
21	Distance Traveled While MIL is Activated		Yes
22	Fuel Pressure relative to manifold vacuum		No
Abbr1	Fuel	Abbr2	PSI
TData	07DF 0122 0000		
TCtrl	82	RCtrl	21
RPOS	1810	MTCH	412200
MATH	X: 143A	/: FFFF	+: 0000
Output Format	11 (PSI)	Ave	00
Left/Right	31		
Range	0 to 750.9 PSI		



Description		Fuel Pressure relative to manifold vacuum			
23	Fuel Rail Pressure (PSI)				Yes
24	Wide O2 Lambda - Bank 1, Sensor 1				Yes
Abbr1	O2?	Abbr2	B1S1		
TData	07DF 0124 0000				
TCtrl	82	RCtrl	21		
RPOS	1810	MTCH	412400		
MATH	X	0002	/	FFFF	+ 0000
Output Format	00	Ave	00		
Left/Right	23				
Range	0 to 1.999				
Description	<p>wide-ratio Oxygen Sensors Lambda for B1S1</p> <p>? = 1 = ideal mixture  ? &gt; 1 = lean mixture  ? &lt; 1 = rich mixture</p> <p>See UltraGauge user manual for details.</p> <p>(</p> <p>No</p> <p>te that this parameter may be scaled depending on vehicle, which will require adjusting the MATH)</p>				
25	Wide O2 Lambda - Bank 1, Sensor 2				Yes
Abbr1	O2?	Abbr2	B1S2		
TData	07DF 0125 0000				
TCtrl	82	RCtrl	21		
RPOS	1810	MTCH	412500		
MATH	X	0002	/	FFFF	+ 0000
Output Format	00	Ave	00		
Left/Right	23				
Range	0 to 1.999				
Description	<p>wide-ratio Oxygen Sensors Lambda for B1S2</p> <p>? = 1 = ideal mixture  ? &gt; 1 = lean mixture</p>				

	<p>? &lt; 1 = rich mixture</p> <p>See UltraGauge user manual for details.</p> <p>(</p> <p style="text-align: center;">No</p> <p>te that this parameter may be scaled depending on vehicle, which will require adjusting the MATH)</p>
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26	Wide O2 Lambda - Bank 1, Sensor 3	No
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Abbr1	O2?	Abbr2	B1S3
TData	07DF 0126 0000		
TCtrl	82	RCtrl	21
RPOS	1810	MTCH	412600
MATH	X 0002	/ FFFF	+ 0000
Output Format	00	Ave	00
Left/Right	23		
Range	0 to 1.999		

Description	<p>wide-ratio Oxygen Sensors Lambda for B1S3</p> <p>? = 1 = ideal mixture  ? &gt; 1 = lean mixture  ? &lt; 1 = rich mixture</p> <p>See UltraGauge user manual for details.</p> <p>(</p> <p style="text-align: center;">No</p> <p>te that this parameter may be scaled depending on vehicle, which will require adjusting the MATH)</p>
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27	Wide O2 Lambda- Bank 1, Sensor 4	No
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Abbr1	O2?	Abbr2	B1S4
TData	07DF 0127 0000		
TCtrl	82	RCtrl	21
RPOS	1810	MTCH	412700
MATH	X 0002	/ FFFF	+ 0000
Output Format	00	Ave	00
Left/Right	23		

Range	0 to 1.999		
Description	<p>wide-ratio Oxygen Sensors Lambda for B1S4</p> <p>? = 1 = ideal mixture  ? &gt; 1 = lean mixture  ? &lt; 1 = rich mixture</p> <p>See UltraGauge user manual for details.</p> <p>(</p> <p style="text-align: center;">No</p> <p>te that this parameter may be scaled depending on vehicle, which will require adjusting the MATH)</p>		
28	Wide O2 Lambda - Bank 2, Sensor 1		Yes
Abbr1	O2?	Abbr2	B2S1
TData	07DF 0128 0000		
TCtrl	82	RCtrl	21
RPOS	1810	MTCH	412800
MATH	X 0002	/ FFFF	+ 0000
Output Format	00	Ave	00
Left/Right	23		
Range	0 to 1.999		
Description	<p>wide-ratio Oxygen Sensors Lambda for B2S1</p> <p>? = 1 = ideal mixture  ? &gt; 1 = lean mixture  ? &lt; 1 = rich mixture</p> <p>See UltraGauge user manual for details.</p> <p>(</p> <p style="text-align: center;">No</p> <p>te that this parameter may be scaled depending on vehicle, which will require adjusting the MATH)</p>		
29	Wide O2 Lambda - Bank 2, Sensor 2		Yes
Abbr1	O2?	Abbr2	B2S2
TData	07DF 0129 0000		
TCtrl	82	RCtrl	21

RPOS	1810	MTCH	412900
MATH	X 0002	/ FFFF	+ 0000
Output Format	00	Ave	00
Left/Right	23		
Range	0 to 1.999		
Description	<p>wide-ratio Oxygen Sensors Lambda for B2S2</p> <p>? = 1 = ideal mixture  ? &gt; 1 = lean mixture  ? &lt; 1 = rich mixture</p> <p>See UltraGauge user manual for details.</p> <p>(</p> <p style="text-align: center;">No</p> <p>te that this parameter may be scaled depending on vehicle, which will require adjusting the MATH)</p>		
2A	Wide O2 Lambda - Bank 2, Sensor 3		No
Abbr1	O2?	Abbr2	B2S3
TData	07DF 012A 0000		
TCtrl	82	RCtrl	21
RPOS	1810	MTCH	412A00
MATH	X 0002	/ FFFF	+ 0000
Output Format	00	Ave	00
Left/Right	23		
Range	0 to 1.999		
Description	<p>wide-ratio Oxygen Sensors Lambda for B2S3</p> <p>? = 1 = ideal mixture  ? &gt; 1 = lean mixture  ? &lt; 1 = rich mixture</p> <p>See UltraGauge user manual for details.</p> <p>(</p> <p style="text-align: center;">No</p> <p>te that this parameter may be scaled depending on vehicle, which will require adjusting the MATH)</p>		

2B	Wide O2 Lambda - Bank 2, Sensor 4				No
Abbr1	O2?	Abbr2	B2S4		
TData	07DF 012B 0000				
TCtrl	82	RCtrl	21		
RPOS	1810	MTCH	412B00		
MATH	X	0002	/	FFFF	+ 0000
Output Format	00	Ave	00		
Left/Right	23				
Range	0 to 1.999				
Description	<p>wide-ratio Oxygen Sensors Lambda for B2S4</p> <p>? = 1 = ideal mixture  ? &gt; 1 = lean mixture  ? &lt; 1 = rich mixture</p> <p>See UltraGauge user manual for details.</p> <p>(</p> <p style="text-align: center;">No</p> <p>te that this parameter may be scaled depending on vehicle, which will require adjusting the MATH)</p>				
2C	EGR % Flow Commanded				Yes
2D	EGR % Error				Yes
2E	Evaporative Purge % Commanded				Yes
2F	Fuel Level %				Yes
30	Number of warm-ups since DTCs cleared				Yes
31	Distance traveled since DTCs cleared				Yes
32	Evap System Vapor Pressure				Yes
33	Barometric Pressure				Yes
34	Wide O2 Lambda -Bank 1. Sensor 1				Yes
Abbr1	O2?	Abbr2	B1S1		
TData	07DF 0134 0000				
TCtrl	82	RCtrl	21		
RPOS	1810	MTCH	413400		
MATH	X	0002	/	FFFF	+ 0000
Output Format	00	Ave	00		

Left/Right	23		
Range	0 to 1.999		
Description	<p>Current based wide-ratio Oxygen Sensors Lambda for B1S1</p> <p>? = 1 = ideal mixture  ? &gt; 1 = lean mixture  ? &lt; 1 = rich mixture</p> <p>See UltraGauge user manual for details.</p> <p>(</p> <p style="text-align: center;">No</p> <p>te that this parameter may be scaled depending on vehicle, which will require adjusting the MATH)</p>		
35	Wide O2 Lambda - Bank 1, Sensor 2		Yes
Abbr1	O2?	Abbr2	B1S2
TData	07DF 0135 0000		
TCtrl	82	RCtrl	21
RPOS	1810	MTCH	413500
MATH	X 0002	/ FFFF	+ 0000
Output Format	00	Ave	00
Left/Right	23		
Range	0 to 1.999		
Description	<p>Current based wide-ratio Oxygen Sensors Lambda for B1S2</p> <p>? = 1 = ideal mixture  ? &gt; 1 = lean mixture  ? &lt; 1 = rich mixture</p> <p>See UltraGauge user manual for details.</p> <p>(</p> <p style="text-align: center;">No</p> <p>te that this parameter may be scaled depending on vehicle, which will require adjusting the MATH)</p>		
36	Wide O2 Lambda - Bank 1, Sensor 3		No
Abbr1	O2?	Abbr2	B1S3
TData	07DF 0136 0000		

TCtrl	82	RCtrl	21
RPOS	1810	MTCH	413600
MATH	X 0002	/ FFFF	+ 0000
Output Format	00	Ave	00
Left/Right	23		
Range	0 to 1.999		
Description	<p>Current based wide-ratio Oxygen Sensors Lambda for B1S3</p> <p>? = 1 = ideal mixture  ? &gt; 1 = lean mixture  ? &lt; 1 = rich mixture</p> <p>See UltraGauge user manual for details.</p> <p>(</p> <p style="text-align: center;">No</p> <p>te that this parameter may be scaled depending on vehicle, which will require adjusting the MATH)</p>		
37	Wide O2 Lambda - Bank 1, Sensor 4		No
Abbr1	O2?	Abbr2	B1S4
TData	07DF 0137 0000		
TCtrl	82	RCtrl	21
RPOS	1810	MTCH	413700
MATH	X 0002	/ FFFF	+ 0000
Output Format	00	Ave	00
Left/Right	23		
Range	0 to 1.999		
Description	<p>Current based wide-ratio Oxygen Sensors Lambda for B1S4</p> <p>? = 1 = ideal mixture  ? &gt; 1 = lean mixture  ? &lt; 1 = rich mixture</p> <p>See UltraGauge user manual for details.</p> <p>(</p> <p style="text-align: center;">No</p> <p>te that this parameter may be scaled depending on vehicle, which will require</p>		

	adjusting the MATH)			
38	Wide O2 Lambda - Bank 2, Sensor 1			Yes
Abbr1	O2?	Abbr2	B2S1	
TData	07DF 0138 0000			
TCtrl	82	RCtrl	21	
RPOS	1810	MTCH	413800	
MATH	X 0002	/ FFFF	+ 0000	
Output Format	00	Ave	00	
Left/Right	23			
Range	0 to 1.999			
Description	<p>Current based wide-ratio Oxygen Sensors Lambda for B2S1</p> <p>? = 1 = ideal mixture  ? &gt; 1 = lean mixture  ? &lt; 1 = rich mixture</p> <p>See UltraGauge user manual for details.</p> <p>(</p> <p style="text-align: center;">No</p> <p>te that this parameter may be scaled depending on vehicle, which will require adjusting the MATH)</p>			
39	Wide O2 Lambda - Bank 2, Sensor 2			Yes
Abbr1	O2?	Abbr2	B2S2	
TData	07DF 0139 0000			
TCtrl	82	RCtrl	21	
RPOS	1810	MTCH	413900	
MATH	X 0002	/ FFFF	+ 0000	
Output Format	00	Ave	00	
Left/Right	23			
Range	0 to 1.999			
Description	<p>Current based wide-ratio Oxygen Sensors Lambda for B2S2</p> <p>? = 1 = ideal mixture  ? &gt; 1 = lean mixture  ? &lt; 1 = rich mixture</p> <p>See UltraGauge user manual for details.</p>			



	(  No te that this parameter may be scaled depending on vehicle, which will require adjusting the MATH)
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3A	Wide O2 Lambda - Bank 2, Sensor 3	No
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Abbr1	O2?	Abbr2	B2S3
TData	07DF 013A 0000		
TCtrl	82	RCtrl	21
RPOS	1810	MTCH	413A00
MATH	X 0002	/ FFFF	+ 0000
Output Format	00	Ave	00
Left/Right	23		
Range	0 to 1.999		

Description	<p>Current based wide-ratio Oxygen Sensors Lambda for B2S3</p> <p>? = 1 = ideal mixture ? &gt; 1 = lean mixture ? &lt; 1 = rich mixture</p> <p>See UltraGauge user manual for details.</p> <p>(  No te that this parameter may be scaled depending on vehicle, which will require adjusting the MATH)</p>
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3B	Wide O2 Lambda - Bank 2, Sensor 4	No
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Abbr1	O2?	Abbr2	B2S4
TData	07DF 013B 0000		
TCtrl	82	RCtrl	21
RPOS	1810	MTCH	413B00
MATH	X 0002	/ FFFF	+ 0000
Output Format	00	Ave	00
Left/Right	23		
Range	0 to 1.999		

Description	<p>Current based wide-ratio Oxygen Sensors Lambda for B2S4</p> <p>? = 1 = ideal mixture  ? &gt; 1 = lean mixture  ? &lt; 1 = rich mixture</p> <p>See UltraGauge user manual for details.</p> <p>(</p> <p style="text-align: center;">No</p> <p>te that this parameter may be scaled depending on vehicle, which will require adjusting the MATH)</p>
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3C	Catalytic Converter Temperature - Bank 1, Sensor 1	Yes
3D	Catalytic Converter Temperature - Bank 2, Sensor 1	Yes
3E	Catalytic Converter Temperature - Bank 1, Sensor 2	Yes
3F	Catalytic Converter Temperature - Bank 2, Sensor 2	Yes
40	Supported next 32 PIDs	No
41	Monitor status this driving cycle	No
42	Control module voltage	Yes
43	Absolute Load	Yes
44	AFR commanded ratio	Yes
45	Relative Throttle Position %	No

Abbr1	RTP	Abbr2	%
TData	07DF 0145 0000		
TCtrl	82	RCtrl	21
RPOS	1808	MTCH	414500
MATH	X 0064	/ 00FF	+ 0000
Output Format	00	Ave	00
Left/Right	31		
Range	0 to 100%		
Description	<p>Relative or "learned" throttle position is</p> <p style="text-align: center;">No</p> <p>ormalized and scaled from 0 to 100 %</p>		

0% = "learned" closed-throttle position.

Because of the closed-throttle offset, wide-open throttle will usually indicate substantially less than 100 %

46	Ambient Air Temp	Yes
47	Absolute Throttle Position B %	Yes
48	Absolute Throttle Position C %	No

Abbr1	ATP	Abbr2	C%
TData	07DF 0148 0000		
TCtrl	82	RCtrl	21
RPOS	1808	MTCH	414800
MATH	X 0064	/ 00FF	+ 0000
Output Format	00	Ave	00
Left/Right	31		
Range	0 to 100%		
Description	Absolute throttle position C ( Not "relative" or "learned") A Normalized value, scaled from 0 to 100 %		

49	Accelerator Pedal Position D %	Yes
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Abbr1	APP	Abbr2	D%
TData	07DF 0149 0000		
TCtrl	82	RCtrl	21
RPOS	1808	MTCH	4149800
MATH	X 0064	/ 00FF	+ 0000
Output Format	00	Ave	00
Left/Right	31		
Range	0 to 100%		
Description	Absolute throttle position D (		

	<p style="text-align: center;">No t “relative” or “learned”)</p> <p>A</p> <p style="text-align: center;">No rmalized value, scaled from 0 to 100 %</p>
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4A	Accelerator Pedal Position E %	No
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Abbr1	APP	Abbr2	E%
TData	07DF 014A 0000		
TCtrl	82	RCtrl	21
RPOS	1808	MTCH	414A800
MATH	X 0064	/ 00FF	+ 0000
Output Format	00	Ave	00
Left/Right	31		
Range	0 to 100%		

Description	<p>Accelerator Pedal Position E,</p> <p>(</p> <p style="text-align: center;">No t “relative” or “learned”)</p> <p>A</p> <p style="text-align: center;">No rmalized value, scaled from 0 to 100 %</p>
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4B	Accelerator Pedal Position F %	No
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Abbr1	APP	Abbr2	F%
TData	07DF 014B 0000		
TCtrl	82	RCtrl	21
RPOS	1808	MTCH	414B00
MATH	X 0064	/ 00FF	+ 0000
Output Format	00	Ave	00
Left/Right	31		
Range	0 to 100%		

Description	<p>Accelerator Pedal Position F,</p> <p>(</p> <p style="text-align: center;">No t “relative” or “learned”)</p>
-------------	--

	A		
	No ormalized value, scaled from 0 to 100 %		
4C	Commanded Throttle Actuator Control %		Yes
4D	Engine Run Time while MIL on		No
Abbr1	RT	Abbr2	MIL
TData	07DF 014D 0000		
TCtrl	82	RCtrl	21
RPOS	1810	MTCH	414D00
MATH	X 0001	/ 0001	+ 0000
Output Format	00	Ave	00
Left/Right	50		
Range	0 to 65,535 minutes (~45 days)		
Description	Engine Run Time since MIL (Check engine light) on. Does t wrap No		
4E	Engine Run Time since DTCs cleared		No
Abbr1	RT	Abbr2	DTC
TData	07DF 014E 0000		
TCtrl	82	RCtrl	21
RPOS	1810	MTCH	414E00
MATH	X 0001	/ 0001	+ 0000
Output Format	00	Ave	00
Left/Right	50		
Range	0 to 65,535 minutes (~45 days)		
Description	Engine Run Time since DTC (Trouble Codes) cleared. Does t wrap No		
52	Alcohol Fuel %		No
Abbr1	ALC	Abbr2	%
TData	07DF 0152 0000		
TCtrl	82	RCtrl	21

RPOS	1808	MTCH	415200
MATH	X 0064	/ 00FF	+ 0000
Output Format	00	Ave	00
Left/Right	31		
Range	0 to 100%		
Description	Percentage of alcohol (ethanol or methanol) in the fuel blend supplied to the combustion chamber No No		
53	Absolute Evap System Vapor Pressure		No
Abbr1	EVP	Abbr2	PSI
TData	07DF 0153 0000		
TCtrl	82	RCtrl	21
RPOS	1810	MTCH	415300
MATH	X 0001	/ 00C8	+ 0000
Output Format	11	Ave	00
Left/Right	22		
Range	0 to 47.5 PSI		
Description	Absolute evaporative system vapor pressure normally obtained from a sensor located in the fuel tank. No Not gauge pressure. An absolute vacuum would be 0 PSI		
54	Evap System Vapor Pressure		No
Abbr1	EVP	Abbr2	PSI
TData	07DF 0154 0000		
TCtrl	82	RCtrl	21
RPOS	1890	MTCH	415400
MATH	X 0001	/ 03E8	+ 0000
Output Format	11	Ave	00
Left/Right	22		

Range	-4.75 to 4.75 PSI			
Description	Evaporative system vapor pressure No rinally obtained from a sensor located in the fuel tank. Gauge pressure.			
55	Short Term Secondary O2 Fuel Trim % – Bank 1			No
Abbr1	Srt	Abbr2	FT1	
TData	07DF 0155 0000			
TCtrl	82	RCtrl	21	
RPOS	1808	MTCH	415500	
MATH	X	0064	/	0080 + FF9C
Output Format	00	Ave	00	
Left/Right	41			
Range	(Lean) -100% to 99.22% (Rich)			
Description	Short Term Secondary O2 Sensor Fuel Trim indicates the correction currently being utilized by the closed-loop fuel system. If the fuel system is in open loop, 0% correction is displayed			
56	Long Term Secondary O2 Fuel Trim % – Bank 1			No
Abbr1	Lng	Abbr2	FT1	
TData	07DF 0156 0000			
TCtrl	82	RCtrl	21	
RPOS	1808	MTCH	415600	
MATH	X	0064	/	0080 + FF9C
Output Format	00	Ave	00	
Left/Right	41			
Range	(Lean) -100% to 99.22% (Rich)			
Description	Long Term Secondary O2 Sensor Fuel Trim indicates the correction currently being utilized by the fuel system regardless of loop status			
57	Short Term Secondary O2 Fuel Trim % – Bank 2			No
Abbr1	Srt	Abbr2	FT2	

TData	07DF 0157 0000			
TCtrl	82	RCtrl	21	
RPOS	1808	MTCH	415700	
MATH	X 0064	/ 0080	+ FF9C	
Output Format	00	Ave	00	
Left/Right	41			
Range	(Lean) -100% to 99.22% (Rich)			
Description	Short Term Secondary O2 Sensor Fuel Trim indicates the correction currently being utilized by the closed-loop fuel system. If the fuel system is in open loop, 0% correction is displayed			
58	Long Term Secondary O2 Fuel Trim % – Bank 2			No
Abbr1	Lng	Abbr2	FT2	
TData	07DF 0158 0000			
TCtrl	82	RCtrl	21	
RPOS	1808	MTCH	415800	
MATH	X 0064	/ 0080	+ FF9C	
Output Format	00	Ave	00	
Left/Right	41			
Range	(Lean) -100% to 99.22% (Rich)			
Description	Long Term Secondary O2 Sensor Fuel Trim indicates the correction currently being utilized by the fuel system regardless of loop status			
59	Fuel Rail Pressure (absolute)			No
Abbr1	FRP	Abbr2	PSI	
TData	07DF 0159 0000			
TCtrl	82	RCtrl	21	
RPOS	1810	MTCH	415900	
MATH	X 000A	/ 0001	+ 0000	
Output Format	11 (PSI)	Ave	00	
Left/Right	50			
Range	(vacuum) 0 to 95,050 PSI			



Description	Absolute fuel rail pressure at the engine.  No t gauge pressure. Found on Diesel and Direct Injection engines			
5A	Accelerator Pedal Relative Position %			No
Abbr1	APRP	Abbr2	%	
TData	07DF 015A 0000			
TCtrl	82	RCtrl	21	
RPOS	1808	MTCH	415A00	
MATH	X	0064	/	00FF + 0000
Output Format	00	Ave	00	
Left/Right	30			
Range	0 to 100%			
Description	Relative or "learned" pedal position  No ormalized and scaled from 0 to 100 %. "learned" closed-pedal position = 0%			
5B	Hybrid/EV Battery Remaining Charge %			No
Abbr1	SOC	Abbr2	%	
TData	07DF 015B 0000			
TCtrl	82	RCtrl	21	
RPOS	1808	MTCH	415B00	
MATH	X	0064	/	00FF + 0000
Output Format	00	Ave	00	
Left/Right	31			
Range	0 to 100%			
Description	The percent of charge remaining for the battery pack, expressed as a percentage of full charge, commonly referred to as State Of Charge (SOC).			
5C	Engine Oil Temperature			Yes
5D	Fuel Injection Timing			Yes
5E	Engine Fuel Rate			Yes
60	Supported next 32 PIDs			No
61	Commanded Engine % Torque			No

Abbr1	TRQ	Abbr2	CM%
TData	07DF 0161 0000		
TCtrl	82	RCtrl	21
RPOS	1808	MTCH	416100
MATH	X 0001	/ 0001	+ FF83
Output Format	00	Ave	00
Left/Right	40		
Range	-125% to 130%		
Description	Commanded engine torque by the driver as a % of maximum		
62	Actual Engine % Torque		No
Abbr1	TRQ	Abbr2	%
TData	07DF 0162 0000		
TCtrl	82	RCtrl	21
RPOS	1808	MTCH	416200
MATH	X 0001	/ 0001	+ FF83
Output Format	00	Ave	00
Left/Right	40		
Range	-125% to 130%		
Description	Calculated output torque of the engine		
63	Engine Reference Torque		No
Abbr1	TRQ	Abbr2	Ref
TData	07DF 0163 0000		
TCtrl	82	RCtrl	21
RPOS	1810	MTCH	416300
MATH	X 0001	/ 0001	+ 0000
Output Format	13	Ave	00
Left/Right	50		
Range	0 to 48,336 ft lbs		
Description	Torque 100% reference value for all defined indicated engine torque parameters. It is only defined once, is a constant, and doesn't change if a different engine torque map becomes valid.		
66	Mass Air Flow A		No

Abbr1	MAPA	Abbr2	
TData	07DF 0166 0000		
TCtrl	82	RCtrl	21
RPOS	2010	MTCH	416600
MATH	X 0001	/ 0020	+ 0000
Output Format	00	Ave	00
Left/Right	41		
Range	0 to 2047.9 grams/second		
Description	The Mass Air Flow measured entering the engine as measured by MAF sensor A		
	<b>Output Format</b>	<b>Units</b>	
	00	grams/sec	
	15	lbs/min	
	16	lbs/hour	
66b	Mass Air Flow B		No
Abbr1	MAPB	Abbr2	
TData	07DF 0166 0000		
TCtrl	82	RCtrl	21
RPOS	3010	MTCH	416600
MATH	X 0001	/ 0020	+ 0000
Output Format	00	Ave	00
Left/Right	41		
Range	0 to 2047.9 grams/second		
Description	The Mass Air Flow measured entering the engine as measured by MAF sensor B		
	<b>Output Format</b>	<b>Units</b>	
	00	grams/sec	
	15	lbs/min	
	16	lbs/hour	
67	Engine Coolant Temperature 1		No
Abbr1	Eng	Abbr2	1°F

TData	07DF 0167 0000			
TCtrl	82	RCtrl	21	
RPOS	2008	MTCH	416700	
MATH	X   0001	/   0001	+	FFD8
Output Format	10	Ave	00	
Left/Right	31			
Range	-40°F to 415°F			
Description	Alternate Engine Coolant temperature Sensor 1			
67b	Engine Coolant Temperature 2			No
Abbr1	Eng	Abbr2	2°F	
TData	07DF 0167 0000			
TCtrl	82	RCtrl	21	
RPOS	2808	MTCH	416700	
MATH	X   0001	/   0001	+	FFD8
Output Format	10	Ave	00	
Left/Right	31			
Range	-40°F to 415°F			
Description	Alternate Engine Coolant temperature Sensor 2			
68	Intake Air Temperature - Bank 1, Sensor 1			Yes
Abbr1	IAT	Abbr2	B1S1	
TData	07DF 0168 0000			
TCtrl	82	RCtrl	22	
RPOS	2808	MTCH	416800	
MATH	X   0001	/   0001	+	FFD8
Output Format	10	Ave	00	
Left/Right	31			
Range	-40°F to 415°F			
Description	Intake Air Temperature Sensor bank 1, Sensor 1			

68b	Intake Air Temperature - Bank 1, Sensor 2				Yes
Abbr1	IAT		Abbr2	B1S2	
TData	07DF 0168 0000				
TCtrl	82		RCtrl	22	
RPOS	3008		MTCH	416800	
MATH	X	0001	/	0001	+ FFD8
Output Format	10		Ave	00	
Left/Right	31				
Range	-40°F to 415°F				
Description	Intake Air Temperature bank 1, Sensor 2				
68c	Intake Air Temperature - Bank 1, Sensor 3				Yes
Abbr1	IAT		Abbr2	B1S3	
TData	07DF 0168 0000				
TCtrl	82		RCtrl	22	
RPOS	3808		MTCH	416800	
MATH	X	0001	/	0001	+ FFD8
Output Format	10		Ave	00	
Left/Right	31				
Range	-40°F to 415°F				
Description	Intake Air Temperature bank 1, Sensor 3				
69	Commanded EGR A Duty Cycle/Position				Yes
Abbr1	CEGR		Abbr2	A%	
TData	07DF 0169 0000				
TCtrl	82		RCtrl	22	
RPOS	2808		MTCH	416900	
MATH	X	0064	/	00FF	+ 0000
Output Format	00		Ave	00	
Left/Right	31				
Range	( No flow) 0% to 100% (max flow)				
Description	Commanded EGR % Normalized to the maximum EGR commanded output				

69b	Actual EGR A Duty Cycle/Position				Yes
Abbr1	EGR	Abbr2	A%		
TData	07DF 0169 0000				
TCtrl	82	RCtrl	22		
RPOS	3008	MTCH	416900		
MATH	X	0064	/	00FF	+ 0000
Output Format	00	Ave	00		
Left/Right	31				
Range	( No flow) 0% to 100% (max flow)				
Description	Actual EGR % Normalized to the maximum EGR commanded output				
69c	EGR A Error %				Yes
Abbr1	EGRA	Abbr2	Er%		
TData	07DF 0169 0000				
TCtrl	82	RCtrl	22		
RPOS	3808	MTCH	416900		
MATH	X	0064	/	0080	+ FF9C
Output Format	00	Ave	00		
Left/Right	41				
Range	(< cmd) -100% to 99.2% (> cmd)				
Description	EGR error, as a percent of commanded EGR				
6A	Commanded Diesel Intake A Air Flow %				No
Abbr1	CIAF	Abbr2	A%		
TData	07DF 016A 0000				
TCtrl	82	RCtrl	21		
RPOS	2008	MTCH	416A00		
MATH	X	0064	/	00FF	+ 0000
Output Format	00	Ave	00		
Left/Right	31				
Range	(closed throttle) 0% to 100% (wide open)				

Description	Commanded Intake Air Flow %. Also known as EGR throttle				No
6Ab	Relative Diesel Intake Air Flow A Position %				No
Abbr1	RIAF	Abbr2	A%		
TData	07DF 016A 0000				
TCtrl	82	RCtrl	21		
RPOS	2808	MTCH	416A00		
MATH	X	0064	/	00FF	+ 0000
Output Format	00	Ave	00		
Left/Right	31				
Range	(closed throttle) 0% to 100% (wide open)				
Description	<p>Intake Air Flow position displayed as a percent.</p> <p>Relative or learned position is a normalized value, scaled from 0 to 100%. Intake Air Flow position is also known as EGR Throttle Position on compression ignition vehicles</p>				
6Ac	Commanded Diesel Intake B Air Flow %				No
Abbr1	CIAF	Abbr2	B%		
TData	07DF 016A 0000				
TCtrl	82	RCtrl	21		
RPOS	3008	MTCH	416A00		
MATH	X	0064	/	00FF	+ 0000
Output Format	00	Ave	00		
Left/Right	31				
Range	(closed throttle) 0% to 100% (wide open)				
Description	Commanded Intake Air Flow %. Also known as EGR throttle				
6Ad	Relative Diesel Intake Air Flow B Position %				No

Abbr1	RIAF	Abbr2	B%
TData	07DF 016A 0000		
TCtrl	82	RCtrl	21
RPOS	3808	MTCH	416A00
MATH	X 0064	/ 00FF	+ 0000
Output Format	00	Ave	00
Left/Right	31		
Range	(closed throttle) 0% to 100% (wide open)		
Description	<p>Intake Air Flow position displayed as a percent.</p> <p>Relative or learned position is a No ormalized value, scaled from 0 to 100%. Intake Air Flow position is also k No wn as EGR Throttle Position on compression ignition vehicles</p>		
6B	EGR Temperature - Bank 1, Sensor 1		No
Abbr1	EGR	Abbr2	B1S1
TData	07DF 016B 0000		
TCtrl	82	RCtrl	21
RPOS	2008	MTCH	416B00
MATH	X 0001 0004	/ 0001	+ FFD8
Output Format	10	Ave	00
Left/Right	31		
Range	-40°F to 419°F (1796F)		
Description	<p>EGR Temperature Bank 1, Sensor 1</p> <p>Two possible X: values. Use which ever makes sense based on the output at ambient temperature (when cold)</p>		
6Bb	EGR Temperature - Bank 1, Sensor 2		No
Abbr1	EGR	Abbr2	B1S2
TData	07DF 016B 0000		
TCtrl	82	RCtrl	21



RPOS	2808		MTCH	416B00	
MATH	X	0001 0004	/	0001	+ FFD8
Output Format	10		Ave	00	
Left/Right	31				
Range	-40°F to 419°F (1796F)				
Description	EGR Temperature Bank 1, Sensor 2 Two possible X: values. Use which ever makes sense based on the output at ambient temperature (when cold)				
6Bc	EGR Temperature - Bank 2, Sensor 1				No
Abbr1	EGR		Abbr2	B2S1	
TData	07DF 016B 0000				
TCtrl	82		RCtrl	21	
RPOS	3008		MTCH	416B00	
MATH	X	0001 0004	/	0001	+ FFD8
Output Format	10		Ave	00	
Left/Right	31				
Range	-40°F to 419°F (1796F)				
Description	EGR Temperature Bank 2, Sensor 1 Two possible X: values. Use which ever makes sense based on the output at ambient temperature (when cold)				
6Bd	EGR Temperature - Bank 2, Sensor 2				No
Abbr1	EGR		Abbr2	B2S2	
TData	07DF 016B 0000				
TCtrl	82		RCtrl	21	
RPOS	3808		MTCH	416B00	
MATH	X	0001 0004	/	0001	+ FFD8
Output Format	10		Ave	00	
Left/Right	31				
Range	-40°F to 419°F (1796F)				

Description	EGR Temperature Bank 2, Sensor 2		
	Two possible X: values. Use which ever makes sense based on the output at ambient temperature (when cold)		
6D	Commanded Fuel Rail Pressure A		Yes
Abbr1	CFRA	Abbr2	PSI
TData	07DF 016D 0000		
TCtrl	82	RCtrl	22
RPOS	2810	MTCH	416D00
MATH	X 000A	/ 0001	+ 0000
Output Format	11	Ave	00
Left/Right	50		
Range	0 to 95,050 PSI		
Description	Commanded fuel Rail A pressure		
6Dc	Fuel Rail A Temperature		Yes
Abbr1	FRA	Abbr2	°F
TData	07E0 016D 0000		
TCtrl	92	RCtrl	10
RPOS	1008	MTCH	210000
MATH	X 0001	/ 0001	+ FFD8
Output Format	10	Ave	00
Left/Right	31		
Range	-40°F to 419°F		
Description	Fuel Rail A temperature		
6Dd	Commanded Fuel Rail B Pressure		Yes
Abbr1	CFRB	Abbr2	PSI
TData	07E0 016D 0000		
TCtrl	92	RCtrl	10
RPOS	1810	MTCH	210000
MATH	X 000A	/ 0001	+ 0000
Output Format	11	Ave	00
Left/Right	50		
Range	0 to 95,050 PSI		
Description	Commanded Fuel Rail B pressure		

6De	Fuel Rail B Pressure				Yes
Abbr1	FRB	Abbr2	PSI		
TData	07E0 016D 0000				
TCtrl	92	RCtrl	10		
RPOS	2810	MTCH	210000		
MATH	X	000A	/	0001	+ 0000
Output Format	11	Ave	00		
Left/Right	50				
Range	0 to 95,050 PSI				
Description	Fuel Rail B pressure				
6Df	Fuel Rail B Temperature				Yes
Abbr1	FRB	Abbr2	°F		
TData	07E0 016D 0000				
TCtrl	92	RCtrl	10		
RPOS	3808	MTCH	210000		
MATH	X	0001	/	0001	+ FFD8
Output Format	10	Ave	00		
Left/Right	31				
Range	-40°F to 419°F				
Description	Fuel Rail B temperature				
6E	Commanded Injection Control A Pressure				Yes
Abbr1	ICPA	Abbr2	PSI		
TData	07DF 016E 0000				
TCtrl	82	RCtrl	22		
RPOS	2810	MTCH	016E00		
MATH	X	000A	/	0001	+ 0000
Output Format	11	Ave	00		
Left/Right	50				
Range	0 to 95,050 PSI				
Description	Commanded Injection Control Pressure A				
6Ec	Commanded Injection Control B Pressure				Yes
Abbr1	ICPB	Abbr2	PSI		
TData	07E0 016E 0000				

TCtrl	92	RCtrl	10
RPOS	1010	MTCH	210000
MATH	X 000A	/ 0001	+ 0000
Output Format	11	Ave	00
Left/Right	50		
Range	0 to 95,050 PSI		
Description	Commanded Injection Control Pressure B		
6Ed	Injection Control B Pressure		Yes
Abbr1	ICPB	Abbr2	PSI
TData	07E0 016E 0000		
TCtrl	92	RCtrl	10
RPOS	2010	MTCH	210000
MATH	X 000A	/ 0001	+ 0000
Output Format	11	Ave	00
Left/Right	50		
Range	0 to 95,050 PSI		
Description	Injection Control Pressure B		
6F	Turbocharger Compressor Inlet Pressure A		No
Abbr1	TrbA	Abbr2	PSI
TData	07DF 016F 0000		
TCtrl	82	RCtrl	21
RPOS	2008	MTCH	416F00
MATH	X 0001 0008	/ 0001	+ 0000
Output Format	11	Ave	00
Left/Right	31		
Range	(vacuum) 0 to 37 PSI (or 295.8 PSI)		
Description	Absolute Turbocharger Compressor Inlet Pressure Sensor A. Two possible X: values. Use which ever makes sense based on observation		
6Fb	Turbocharger Compressor Inlet Pressure B		No
Abbr1	TrbB	Abbr2	PSI
TData	07DF 016F 0000		

TCtrl	82	RCtrl	21
RPOS	2808	MTCH	416F00
MATH	X 0001 0008	/ 0001	+ 0000
Output Format	11	Ave	00
Left/Right	31		
Range	(vacuum) 0 to 37 PSI (or 295.8 PSI)		
Description	Absolute Turbocharger Compressor Inlet Pressure Sensor B. Two possible X: values. Use which ever makes sense based on observation		
70	Commanded Boost Pressure A		Yes
Abbr1	CBA	Abbr2	PSI
TData	07DF 0170 0000		
TCtrl	82	RCtrl	22
RPOS	2810	MTCH	417000
MATH	X 0001	/ 0020	+ 0000
Output Format	11	Ave	00
Left/Right	31		
Range	0 to 297 PSI		
Description	turbocharger/supercharger A commanded boost pressure		
70c	Commanded Boost Pressure B		Yes
Abbr1	CBB	Abbr2	PSI
TData	07E0 0170 0000		
TCtrl	92	RCtrl	10
RPOS	1010	MTCH	210000
MATH	X 0001	/ 0020	+ 0000
Output Format	11	Ave	00
Left/Right	31		
Range	0 to 297 PSI		
Description	turbocharger/supercharger B commanded boost pressure		
70d	Boost Pressure B		Yes
Abbr1	BstB	Abbr2	PSI

TData	07E0 0170 0000			
TCtrl	92	RCtrl	10	
RPOS	2010	MTCH	210000	
MATH	X 0001	/ 0020	+ 0000	
Output Format	11	Ave	00	
Left/Right	31			
Range	0 to 297 PSI			
Description	turbocharger/supercharger B boost pressure			
71	Commanded Variable Geometry Turbo A Position			Yes
Abbr1	CVG	Abbr2	TrbA	
TData	07DF 0171 0000			
TCtrl	82	RCtrl	22	
RPOS	2808	MTCH	417100	
MATH	X 0064	/ 00FF	+ 0000	
Output Format	00	Ave	00	
Left/Right	31			
Range	(bypassed) 0% to 100% (No t bypassed)			
Description	Commanded Variable Geometry Turbo A Position			
71b	Variable Geometry Turbo A Position			Yes
Abbr1	VG	Abbr2	TrbA	
TData	07DF 0171 0000			
TCtrl	82	RCtrl	22	
RPOS	3008	MTCH	417100	
MATH	X 0064	/ 00FF	+ 0000	
Output Format	00	Ave	00	
Left/Right	31			
Range	(bypassed) 0% to 100% (No t bypassed)			
Description	Variable Geometry Turbo A Position			
71c	Commanded Variable Geometry Turbo B			Yes

Position			
Abbr1	CVG	Abbr2	TrbB
TData	07DF 0171 0000		
TCtrl	82	RCtrl	22
RPOS	3808	MTCH	417100
MATH	X 0064	/ 00FF	+ 0000
Output Format	00	Ave	00
Left/Right	31		
Range	(bypassed) 0% to 100% (No t bypassed)		
Description	Commanded Variable Geometry Turbo B Position		
71d	Variable Geometry Turbo B Position		Yes
Abbr1	VG	Abbr2	TrbB
TData	07E0 0171 0000		
TCtrl	92	RCtrl	10
RPOS	0808	MTCH	210000
MATH	X 0064	/ 00FF	+ 0000
Output Format	00	Ave	00
Left/Right	31		
Range	(bypassed) 0% to 100% (No t bypassed)		
Description	Variable Geometry Turbo B Position		
72	Wastegate A Position		No
Abbr1	WGA	Abbr2	Pos%
TData	07DF 0172 0000		
TCtrl	82	RCtrl	21
RPOS	2808	MTCH	417200
MATH	X 0064	/ 00FF	+ 0000
Output Format	00	Ave	00
Left/Right	31		
Range	(closed) 0% to 100% (full open)		
Description	Wastegate A Position		

72b	Wastegate B Position				No
Abbr1	WGB	Abbr2	Pos%		
TData	07DF 0172 0000				
TCtrl	82	RCtrl	21		
RPOS	3808	MTCH	417200		
MATH	X	0064	/	00FF	+ 0000
Output Format	00	Ave	00		
Left/Right	31				
Range	(closed) 0% to 100% (full open)				
Description	Wastegate B Position				
73	Exhaust Pressure - Bank 1				Yes
Abbr1	EP1	Abbr2	PSI		
TData	07DF 0173 0000				
TCtrl	82	RCtrl	21		
RPOS	2010	MTCH	417300		
MATH	X	0001	/	0064	+ 0000
Output Format	11	Ave	00		
Left/Right	31				
Range	0 to 95 PSI				
Description	Exhaust Pressure Sensor Bank 1				
73b	Exhaust Pressure - Bank 2				No
Abbr1	EP2	Abbr2	PSI		
TData	07DF 0173 0000				
TCtrl	82	RCtrl	21		
RPOS	3010	MTCH	417300		
MATH	X	0001	/	0064	+ 0000
Output Format	11	Ave	00		
Left/Right	31				
Range	0 to 95 PSI				
Description	Exhaust Pressure Sensor Bank 2				
74	Turbocharger A RPM				No
Abbr1	TrbA	Abbr2	RPM		
TData	07DF 0174 0000				



TCtrl	82	RCtrl	21
RPOS	2010	MTCH	417400
MATH	X 0001	/ 0064	+ 0000
Output Format	00	Ave	00
Left/Right	32		
Range	0 to 655.350K RPM		
Description	Turbocharger A RPM in units of 1K RPMs 15.67 = 15,670 RPMs		
74b	Turbocharger B RPM		No
Abbr1	TrbB	Abbr2	RPM
TData	07DF 0174 0000		
TCtrl	82	RCtrl	21
RPOS	3010	MTCH	417400
MATH	X 0001	/ 0064	+ 0000
Output Format	00	Ave	00
Left/Right	32		
Range	0 to 655.350K RPM		
Description	Turbocharger B RPM in units of 1K RPMs 55.67 = 55,670 RPMs		
75	Turbocharger A Compressor Inlet Temperature		Yes
Abbr1	TrbA	Abbr2	I°F
TData	07DF 0175 0000		
TCtrl	82	RCtrl	22
RPOS	2808	MTCH	417500
MATH	X 0001	/ 0001	+ FFD8
Output Format	10	Ave	00
Left/Right	31		
Range	-40°F to 419°F		
Description	Turbocharger A Compressor Inlet Temperature		
75b	Turbocharger A Compressor Outlet Temperature		Yes
Abbr1	TrbA	Abbr2	O°F

TData	07DF 0175 0000			
TCtrl	82	RCtrl	22	
RPOS	3008	MTCH	417500	
MATH	X 0001	/ 0001	+ FFD8	
Output Format	10	Ave	00	
Left/Right	31			
Range	-40°F to 419°F			
Description	Turbocharger A Compressor Outlet Temperature			
76	Turbocharger B Compressor Inlet Temperature			Yes
Abbr1	TrbB	Abbr2	I°F	
TData	07DF 0176 0000			
TCtrl	82	RCtrl	22	
RPOS	2808	MTCH	417600	
MATH	X 0001	/ 0001	+ FFD8	
Output Format	10	Ave	00	
Left/Right	31			
Range	-40°F to 419°F			
Description	Turbocharger B Compressor Inlet Temperature			
76b	Turbocharger B Compressor Outlet Temperature			Yes
Abbr1	TrbB	Abbr2	O°F	
TData	07DF 0176 0000			
TCtrl	82	RCtrl	22	
RPOS	3008	MTCH	417600	
MATH	X 0001	/ 0001	+ FFD8	
Output Format	10	Ave	00	
Left/Right	31			
Range	-40°F to 419°F			
Description	Turbocharger B Compressor Outlet Temperature			
77	Charge Air Cooler Temperature - Bank 1, Sensor 1			Yes
Abbr1	CAT	Abbr2	B1S1	

TData	07DF 0177 0000			
TCtrl	82	RCtrl	21	
RPOS	2008	MTCH	417700	
MATH	X 0001	/ 0001	+	FFD8
Output Format	10	Ave	00	
Left/Right	31			
Range	-40°F to 419°F			
Description	Charge Air Cooler Temperature Bank 1, Sensor 1			
77b	Charge Air Cooler Temperature - Bank 1, Sensor 2			No
Abbr1	CAT	Abbr2	B1S2	
TData	07DF 0177 0000			
TCtrl	82	RCtrl	21	
RPOS	2808	MTCH	417700	
MATH	X 0001	/ 0001	+	FFD8
Output Format	10	Ave	00	
Left/Right	31			
Range	-40°F to 419°F			
Description	Charge Air Cooler Temperature Bank 1, Sensor 2			
77c	Charge Air Cooler Temperature - Bank 2, Sensor 1			No
Abbr1	CAT	Abbr2	B2S1	
TData	07DF 0177 0000			
TCtrl	82	RCtrl	21	
RPOS	3008	MTCH	417700	
MATH	X 0001	/ 0001	+	FFD8
Output Format	10	Ave	00	
Left/Right	31			
Range	-40°F to 419°F			
Description	Charge Air Cooler Temperature Bank 2, Sensor 1			
77d	Charge Air Cooler Temperature - Bank 2, Sensor 2			No
Abbr1	CAT	Abbr2	B2S2	

TData	07DF 0177 0000			
TCtrl	82	RCtrl	21	
RPOS	3808	MTCH	417700	
MATH	X 0001	/ 0001	+	FFD8
Output Format	10	Ave	00	
Left/Right	31			
Range	-40°F to 419°F			
Description	Charge Air Cooler Temperature Bank 2, Sensor 2			
78	Exhaust Gas Temperature - Bank 1, Sensor 1			Yes
Abbr1	EGT	Abbr2	1°F	
TData	07DF 0178 0000			
TCtrl	82	RCtrl	22	
RPOS	2810	MTCH	417800	
MATH	X 0001	/ 000A	+	FFD8
Output Format	10	Ave	00	
Left/Right	50			
Range	-40°F to 11,756 °F			
Description	Exhaust Gas Temperature Bank 1, Sensor 1			
78b	Exhaust Gas Temperature - Bank 1, Sensor 2			Yes
Abbr1	EGT	Abbr2	2°F	
TData	No t supported			
TCtrl		RCtrl		
RPOS		MTCH		
MATH	X	/	+	
Output Format		Ave		
Left/Right				
Range				
Description	No t supported			
78c	Exhaust Gas Temperature - Bank 1, Sensor 3			Yes

Abbr1	EGT	Abbr2	3°F
TData	07E0 0178 0000		
TCtrl	92	RCtrl	10
RPOS	1010	MTCH	210000
MATH	X 0001	/ 000A	+ FFD8
Output Format	10	Ave	00
Left/Right	50		
Range	-40°F to 11,756 °F		
Description	Exhaust Gas Temperature Bank 1, Sensor 3		
78d	Exhaust Gas Temperature - Bank 1, Sensor 4		Yes
Abbr1	EGT	Abbr2	4°F
TData	07E0 0178 0000		
TCtrl	92	RCtrl	10
RPOS	2010	MTCH	210000
MATH	X 0001	/ 000A	+ FFD8
Output Format	10	Ave	00
Left/Right	50		
Range	-40°F to 11,756 °F		
Description	Exhaust Gas Temperature Bank 1, Sensor 4		
79	Exhaust Gas Temperature - Bank 2, Sensor 1		Yes
Abbr1	EGT	Abbr2	1°F
TData	07DF 0179 0000		
TCtrl	82	RCtrl	22
RPOS	2810	MTCH	417900
MATH	X 0001	/ 000A	+ FFD8
Output Format	10	Ave	00
Left/Right	50		
Range	-40°F to 11,756 °F		
Description	Exhaust Gas Temperature Bank 2, Sensor 1		
79b	Exhaust Gas Temperature - Bank 2, Sensor 2		Yes

Abbr1	EGT	Abbr2	2°F
TData	No t supported		
TCtrl		RCtrl	
RPOS		MTCH	
MATH	X	/	+
Output Format		Ave	
Left/Right			
Range			
Description	No t supported		
79c	Exhaust Gas Temperature - Bank 2, Sensor 3		Yes
Abbr1	EGT	Abbr2	3°F
TData	07E0 0179 0000		
TCtrl	92	RCtrl	10
RPOS	1010	MTCH	210000
MATH	X 0001	/ 000A	+ FFD8
Output Format	10	Ave	00
Left/Right	50		
Range	-40°F to 11,756 °F		
Description	Exhaust Gas Temperature Bank 2, Sensor 3		
79d	Exhaust Gas Temperature - Bank 2, Sensor 4		Yes
Abbr1	EGT	Abbr2	4°F
TData	07E0 0179 0000		
TCtrl	92	RCtrl	10
RPOS	2010	MTCH	210000
MATH	X 0001	/ 000A	+ FFD8
Output Format	10	Ave	00
Left/Right	50		
Range	-40°F to 11,756 °F		
Description	Exhaust Gas Temperature Bank 2, Sensor 4		
7A	Diesel Particulate Filter Delta Pressure -		Yes

Bank 1				
Abbr1	DPF		Abbr2	B1
TData	07DF 017A 0000			
TCtrl	82		RCtrl	22
RPOS	2890		MTCH	417A00
MATH	X	0001	/	0064 + 0000
Output Format	11		Ave	00
Left/Right	31			
Range	-47.53 to 47.53 PSI			
Description	Diesel Particulate Filter Bank 1 Delta Pressure			
7Ab	Diesel Particulate Filter Inlet Pressure - Bank 1			Yes
Abbr1			Abbr2	
TData	No T SUPPORTED			
TCtrl			RCtrl	
RPOS			MTCH	
MATH	X		/	+
Output Format			Ave	
Left/Right				
Range				
Description				
7Ac	Diesel Particulate Filter Outlet Pressure - Bank 1			Yes
Abbr1	DPFO		Abbr2	1PSI
TData	07E0 017A 0000			
TCtrl	92		RCtrl	10
RPOS	1010		MTCH	210000
MATH	X	0001	/	0064 + 0000
Output Format	11		Ave	00
Left/Right	22			
Range	0 to 95 PSI			
Description	Diesel Particulate Filter Bank 1 Outlet Pressure			

7B	Diesel Particulate Filter Delta Pressure - Bank 2				Yes
Abbr1	DPFD		Abbr2	B2	
TData	07DF 017B 0000				
TCtrl	82		RCtrl	22	
RPOS	2890		MTCH	417B00	
MATH	X	0001	/	0064	+ 0000
Output Format	11		Ave	00	
Left/Right	31				
Range	-47.5 to 47.5 PSI				
Description	Diesel Particulate Filter Bank 2 Delta Pressure				
7Bb	Diesel Particulate Filter Inlet Pressure - Bank 2				Yes
Abbr1			Abbr2		
TData	No t supported				
TCtrl			RCtrl		
RPOS			MTCH		
MATH	X		/		+
Output Format			Ave		
Left/Right					
Range					
Description	No t supported				
7Bc	Diesel Particulate Filter Outlet Pressure - Bank 2				Yes
Abbr1	DPFO		Abbr2	2PSI	
TData	07E0 017B 0000				
TCtrl	92		RCtrl	10	
RPOS	1010		MTCH	210000	
MATH	X	0001	/	0064	+ 0000
Output Format	11		Ave	00	
Left/Right	22				
Range	0 to 95 PSI				



Description	Diesel Particulate Filter Bank 2 Outlet Pressure				
7C	DPF Inlet Temperature - Bank 1				Yes
Abbr1	DPFI	Abbr2	1°F		
TData	07DF 017C 0000				
TCtrl	82	RCtrl	22		
RPOS	2810	MTCH	417C00		
MATH	X	0001	/	0064	+ FFD8
Output Format	10	Ave	00		
Left/Right	50				
Range	-40°F to 11,756 °F				
Description	DPF Bank 1 Inlet Temperature Sensor				
7Cb	DPF Outlet Temperature - Bank 1				Yes
Abbr1		Abbr2			
TData	No t supported				
TCtrl		RCtrl			
RPOS		MTCH			
MATH	X		/		+
Output Format		Ave			
Left/Right					
Range					
Description	No t supported				
7Cc	DPF Inlet Temperature - Bank 2				Yes
Abbr1	DPFI	Abbr2	2°F		
TData	07E0 017C 0000				
TCtrl	92	RCtrl	10		
RPOS	1010	MTCH	210000		
MATH	X	0001	/	0064	+ FFD8
Output Format	10	Ave	00		
Left/Right	50				
Range	-40°F to 11,756 °F				
Description	DPF Bank 1 Inlet Temperature Sensor				

7Cd	DPF Outlet Temperature - Bank 2				Yes
Abbr1	DPFO	Abbr2	2°F		
TData	07E0 017C 0000				
TCtrl	92	RCtrl	10		
RPOS	2010	MTCH	210000		
MATH	X	0001	/	0064	+ FFD8
Output Format	10	Ave	00		
Left/Right	50				
Range	-40°F to 11,756 °F				
Description	DPF Bank 2 Outlet Temperature Sensor				
7F	Total Idle Run Time				Yes
Abbr1	TIRT	Abbr2			
TData	07E0 017F 0000				
TCtrl	92	RCtrl	10		
RPOS	1020	MTCH	210000		
MATH	X	0001	/	0001	+ 0000
Output Format	0B 0C	Ave	00		
Left/Right	50 41				
Range	0 to 137,491 hours 0 to 5728.8 days				
Description	<p>This is incremented in seconds when the accelerator pedal is</p> <p style="text-align: center;">No</p> <p>not pressed, idle RPM, speed less than 1 MPH</p> <p style="text-align: center;">No</p> <p>Note that this is potentially a huge number, larger than UG can display. For all practical purposes, the maximum is 99,999 hours</p> <p>Alternatively, Output Format can be set to days (0C), then the maximum is 5,728.8 days. If so, set Left/Right to 41</p>				

80	Supported next 32 PIDs				No
84	Manifold Surface Temperature				No
Abbr1	Man	Abbr2	°F		
TData	07DF 0184 0000				
TCtrl	82	RCtrl	21		
RPOS	1808	MTCH	418400		
MATH	X	0001	/	0001	+ FFD8
Output Format	10	Ave	00		
Left/Right	31				
Range	-40°F to 419°F				
Description	Manifold Surface Temperature				
85a	Average Reagent Consumption				Yes
Abbr1	DEF	Abbr2	Rate		
TData	07DF 0185 0000				
TCtrl	82	RCtrl	22		
RPOS	2810	MTCH	418500		
MATH	X	0001	/	00C8	+ 0000
Output Format	14	Ave	00		
Left/Right	31				
Range	0 to 86.6 gallons/hour				
Description	<p>Average reagent consumption in gallons per hour by the engine system either over the previous complete 48 hour period of engine operation or the period needed for a demanded reagent consumption of at least 4 gallons, whichever is longer.</p> <p>No TE: consumption shall indicate zero g/h when the engine is No t running.</p>				
85b	Reagent Tank Level %				Yes
Abbr1	DEF	Abbr2	Lvl%		
TData	07E0 0185 0000				
TCtrl	92	RCtrl	10		
RPOS	1008	MTCH	210000		

MATH	X	0064	/	00FF	+	0000
Output Format	00		Ave		00	
Left/Right	31					
Range	0 to 100%					
Description	No minimal reagent tank liquid fill capacity as a percent of maximum					
86a	PM Mass Concentration - Bank 1					No
Abbr1	PM		Abbr2		MC1	
TData	07DF 0186 0000					
TCtrl	82		RCtrl		21	
RPOS	2010		MTCH		418600	
MATH	X	0001	/	0050	+	0000
Output Format	00		Ave		00	
Left/Right	32					
Range	0 mg/m3 to 819.19 mg/m3					
Description	PM Sensor Mass Concentration Bank 1					
86b	PM Mass Concentration - Bank 2					No
Abbr1	PM		Abbr2		MC2	
TData	07DF 0186 0000					
TCtrl	82		RCtrl		21	
RPOS	3010		MTCH		418600	
MATH	X	0001	/	0050	+	0000
Output Format	00		Ave		00	
Left/Right	32					
Range	0 mg/m3 to 819.19 mg/m3					
Description	PM Sensor Mass Concentration Bank 2					
87	Intake Manifold Absolute Pressure A					No
Abbr1	MAP		Abbr2		APSI	
TData	07DF 0187 0000					
TCtrl	82		RCtrl		21	
RPOS	2010		MTCH		418700	
MATH	X	0001	/	0020	+	0000
Output Format	11		Ave		00	

Left/Right	31				
Range	0 to 297 PSI				
Description	Intake Manifold Absolute Pressure A				
87b	Intake Manifold Absolute Pressure B				No
Abbr1	MAP	Abbr2	BPSI		
TData	07DF 0187 0000				
TCtrl	82	RCtrl	21		
RPOS	3010	MTCH	418700		
MATH	X	0001	/	0020	+ 0000
Output Format	11	Ave	00		
Left/Right	31				
Range	0 to 297 PSI				
Description	Intake Manifold Absolute Pressure B				
8Ba	Trigger for DPF Regen %				Yes
Abbr1	DPF	Abbr2	Rgn%		
TData	07DF 018B 0000				
TCtrl	82	RCtrl	22		
RPOS	3008	MTCH	418B00		
MATH	X	0064	/	00FF	+ 0000
Output Format	00	Ave	00		
Left/Right	31				
Range	0%(Clean) to 100% (Regen No w)				
Description	<p>The No ormalized DPF loading, time, distance, drive cycles or other criteria before the next DPF regen, where 0% means the DPF is clean (a complete regen just occurred) and 100% means the DPF is ready to be regenerated. When there are multiple criteria to trigger a regen, the one that is closest to triggering the regen shall be displayed.</p>				
8Bb	Average Distance Between DPF Regens				Yes

Abbr1	DPF	Abbr2	Dst
TData	07E0 018B 0000		
TCtrl	92	RCtrl	10
RPOS	1010	MTCH	210000
MATH	X 7FFF	/ CDFD	+ 0000
Output Format	00	Ave	00
Left/Right	50		
Range	0 to 40721 miles		
Description	Average distance between sucessful DPF Regens		
8Bc	Diesel Particulate Filter (DPF) Regen Status		Yes
Abbr1	DPF	Abbr2	RG
TData	07DF 018B 0000		
TCtrl	82	RCtrl	22
RPOS	2801	MTCH	418B00
MATH	X 0001	/ 0001	+ 0000
Output Format	0D	Ave	00
Left/Right	30		
Range	0 or 1		
Description	1 = DPF Regen in progress 0 = DPF Regen No t in progress		
8Ca	O2 Sensor Concentration % Bank 1 Sensor 1		Yes
Abbr1	O2%	Abbr2	B1S1
TData	07DF 018C 0000		
TCtrl	82	RCtrl	22
RPOS	2810	MTCH	418C00
MATH	X 0001	/ 028F	+ 0000
Output Format	00	Ave	00
Left/Right	31		
Range	0 to 100%		

Description		O2 Sensor Concentration % Bank 1 Sensor 1			
8Cb	O2 Sensor Concentration Bank 1 Sensor 2				Yes
Abbr1		Abbr2			
TData		No T SUPPORTED			
TCtrl		RCtrl			
RPOS		MTCH			
MATH	X	/		+	
Output Format		Ave			
Left/Right					
Range					
Description					
8Cc	O2 Sensor Concentration % Bank 2 Sensor 1				Yes
Abbr1		O2%	Abbr2		B2S1
TData		07E0 018C 0000			
TCtrl		92	RCtrl		10
RPOS		1010	MTCH		210000
MATH	X	0001	/	028F	+ 0000
Output Format		00	Ave		00
Left/Right		31			
Range		0 to 100%			
Description		O2 Sensor Concentration % Bank 2 Sensor 1			
8Cd	O2 Sensor Concentration % Bank 2 Sensor 2				Yes
Abbr1		O2%	Abbr2		B2S2
TData		07E0 018C 0000			
TCtrl		92	RCtrl		10
RPOS		2010	MTCH		210000
MATH	X	0001	/	028F	+ 0000
Output Format		00	Ave		00
Left/Right		31			
Range		0 to 100%			

Description		O2 Sensor Concentration % Bank 2 Sensor 2			
8E	Engine Friction Torque %				No
Abbr1	EF	Abbr2	Trq%		
TData	07DF 018E 0000				
TCtrl	82	RCtrl	21		
RPOS	1810	MTCH	418E00		
MATH	X	0001	/	0001	+ FF83
Output Format	00	Ave	00		
Left/Right	40				
Range	-125% to 130%				
Description	Friction Torque is the torque required to drive the engine alone as "fully equipped". Friction torque is the percent of engine reference torque				
8Fa	Particulate Matter (PM) Sensor Output Bank 1 Sensor 1				Yes
Abbr1	PM	Abbr2	B1S1		
TData	07DF 018F 0000				
TCtrl	82	RCtrl	22		
RPOS	3090	MTCH	418F00		
MATH	X	0001	/	0064	+ 0000
Output Format	00	Ave	00		
Left/Right	40				
Range	-327.7 to 327.7%				
Description	<p>100% shall represent manufacturer defined sensor soot load level when sensor regeneration is needed.</p> <p>0% shall represent fully cleaned / regenerated sensor.</p> <p>No description of the meaning of values greater than 100% or less than 0%</p>				
8Fb	Particulate Matter (PM) Sensor Output Bank 2 Sensor 1				Yes
Abbr1	PM	Abbr2	B2S1		



TData	07E0 018F 0000		
TCtrl	92	RCtrl	10
RPOS	1090	MTCH	210000
MATH	X 0001	/ 0064	+ 0000
Output Format	00	Ave	00
Left/Right	40		
Range	-327.7 to 327.7%		
Description	<p>100% shall represent manufacturer defined sensor soot load level when sensor regeneration is needed.</p> <p>0% shall represent fully cleaned / regenerated sensor.</p> <p style="text-align: center;">No</p> <p>description of the meaning of values greater than 100% or less than 0%</p>		

Some of the gauges above have subscripts, such as 14b, 14c, etc. This means that the particular gauge has multi-parts for multi-sensors/multi-banks. Only the primary number will be output with Factory Test and the vehicle may support one or more of the gauges. Some vehicles may support the gauge only to report that it does not support the gauge. If the code is entered correctly, but a static value is displayed, the vehicle likely does not support the gauge.