

## CANM8-J1939

RS232	FUNCTION		CALIBRATION		
Pos.		Range	Scale	Offset	Notes
0	BRAKE PEDAL POSITION	0 to 100 %	1 bit = 0.4 %		
1	ACCELERATOR PEDAL POSITION	0 to 100 %	1 bit = 0.4 %		
2,3	ENGINE SPEED (RPM)	0 to 8191 RPM	1 bit = 0.125 RPM		
4	SELECTED GEAR	-125 to +125	+ve = Forward	-125	0 (125) = Neutral
5	CURRENT GEAR	-125 to +125	-ve = Reverse	-125	0 (125) = Neutral
6	PNEUMATIC SUPPLY PRESSURE	0 to 2000 kPa	1 bit = 8kPa		0-290 psi
7	PARKING / TRAILER AIR PRESSURE	0 to 2000 kPa	1 bit = 8kPa		0-290 psi
8	SUPPLY BRAKE AIR PRESSURE 1	0 to 2000 kPa	1 bit = 8kPa		0-290 psi
9	SUPPLY BRAKE AIR PRESSURE 2	0 to 2000 kPa	1 bit = 8kPa		0-290 psi
10	AUXILIARY EQUIP SUPPLY PRESS	0 to 2000 kPa	1 bit = 8kPa		0-290 psi
11	AIR SUSPENSION SUPPLY PRESS	0 to 2000 kPa	1 bit = 8kPa		0-290 psi
12-15	TOTAL VEHICLE DISTANCE	0 to 21,055,406km	1 bit = 5m		
16-19	TOTAL TRIP DISTANCE	0 to 21,055,406km	1 bit = 5m		
20	TIME / DATE - SECONDS	0 to 59.75 secs	1 bit = 0.25 secs		
21	TIME / DATE - MINUTES	0 to 59 mins	1 bit = 1.0 min		
22	TIME / DATE - HOURS	0 to 23 hours	1 bit = 1.0 hour		
23	TIME / DATE - MONTH	1 to 12 months	1 bit = 1 month		
24	TIME / DATE - DAY	0.25 to 31.75 days	1 bit = 0.25 day		
25	TIME / DATE - YEAR	1985 to 2235	1 bit = 1 year	1985	
26-29	TRIP FUEL USED	0 to 2,105,540,607	1 bit = 0.5 litre		
30-33	TOTAL FUEL USED	0 to 2,105,540,607	1 bit = 0.5 litre		
34	AXLE IDENTIFIER		Bit Value = Axle No.		
35,36	AXLE WEIGHT	0 to 32,127.5 kg	1 bit = 0.5 kg		

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37,38	TRAILER WEIGHT	0 to 128,510 kg	1 bit = 2.0 kg		
39,40	CARGO WEIGHT	0 to 128,510 kg	1 bit = 2.0 kg		
41	ENGINE COOLANT TEMP	-40 to 210 deg C	1 bit = 1 deg C	-40	
42	FUEL TEMPERATURE	-40 to 210 deg C	1 bit = 1 deg C	-40	
43	ENGINE INTERCOOLER TEMP	-40 to 210 deg C	1 bit = 1 deg C	-40	
44,45	ENGINE OIL TEMPERATURE	-273 to 1735 deg C	1 bit = 0.03125 deg C	-273	
46,47	TURBO OIL TEMPERATURE	-273 to 1735 deg C	1 bit = 0.03125 deg C	-273	
48	FUEL DELIVERY PRESSURE	0 to 1000 kPa	1 bit = 4 kPa		
49	ENGINE OIL LEVEL	0 to 100 %	1 bit = 0.4 %		
50	ENGINE OIL PRESSURE	0 to 1000 kPa	1 bit = 4 kPa		
51	COOLANT PRESSURE	0 to 500 kPa	1 bit = 2 kPa		
52,53	CRANKCASE PRESSURE	-250 to 251.99 kPa	1 bit = 7.8125 x 10 <sup>-3</sup>	-250	
54	COOLANT LEVEL	0 to 100 %	1 bit = 0.4 %		
55	MEASURED SW1 - (PARK BRAKE)				
56	CC SW1-(CLUTCH/BRAKE/CC SET)				
57,58	WHEEL BASED VEHICLE SPEED	0 to 251 km/hour	LSB 1 bit = 1/256 km/h		MSB 1 bit = 1 km/h
59,60	FUEL RATE	0 to 3212.75 l/hr	1 bit = 0.05 l/hr		
61,62	INSTANTANEOUS FUEL ECON	0 to 125.5 km/l	1 bit = 1/512 km/l		
63,64	AVERAGE FUEL ECONOMY	0 to 125.5 km/l	1 bit = 1/512 km/l		
65	WASHER FLUID LEVEL	0 to 100 %	1 bit = 0.4 %		
66	FUEL LEVEL	0 to 100 %	1 bit = 0.4 %		
67,68	CARGO AMBIENT TEMPERATURE	-273 to 1735 deg C	1 bit = 0.03125 deg C	-273	
69	WATER IN FUEL				