

AndriusPlayground

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CAN I/O standard elements

Property ID in AVL packet	Property Name	Bytes	Type	Value range		Multiplier	Units	Description	HW Support	Parameter Group
				Min	Max					
115	Engine Coolant Temperature	2	Signed	-600	1270	0.1	°C	Engine temperature	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
85	Engine Speed	2	Unsigned	0	16384	-	rpm	Engine speed in rounds per minute	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
81	Vehicle Speed	1	Unsigned	0	255	-	km/h	Speed of the vehicle usually originated from wheel speed sensors (ABS). Transmitted by engine ECU or vehicle management computer or cruise control module	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
82	Throttle position	1	Unsigned	0	102	-	%	Throttle position indicates how far the throttle valve is open. It ranges from 0% (fully closed, idle) to 100% (fully open, maximum acceleration)	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
89	Fuel Level	1	Unsigned	0	65535	-	%	The % value of the current fuel amount in the tank	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
87	Total Mileage	4	Unsigned	0	4294967295	-	m	Total mileage is the cumulative distance a vehicle has traveled since it was first used	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
84	Fuel Level	2	Unsigned	0	65535	0.1	l	Current fuel level in liters present in main fuel tank	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
400	Distance till next servicing	4	Unsigned	0	4294967295	-	-	Distance possible to drive until service period	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
866	Remaining distance	4	Unsigned	0	4294967295	-	km	Distance possible to drive with current tank size/battery charge	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
940	Seat Belt Status Front Left	1	Unsigned	0	1	-	-	0 - Not fastened 1 - Fastened	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
941	Seat Belt Status Front Right	1	Unsigned	0	1	-	-	0 - Not fastened 1 - Fastened	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
942	Seat Belt Status Rear Left	1	Unsigned	0	1	-	-	0 - Not fastened 1 - Fastened	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
943	Seat Belt Status Rear Right	1	Unsigned	0	1	-	-	0 - Not fastened 1 - Fastened	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
654	Door Status Front Left	1	Unsigned	0	1	-	-	0 - Closed 1 - Open	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
655	Door Status Front Right	1	Unsigned	0	1	-	-	0 - Closed 1 - Open	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
656	Door Status Rear Left	1	Unsigned	0	1	-	-	0 - Closed 1 - Open	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
657	Door Status Rear Right	1	Unsigned	0	1	-	-	0 - Closed 1 - Open	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
913	Bonnet status	1	Unsigned	0	1	-	-	0 - Closed 1 - Open	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
658	Trunk status	1	Unsigned	0	1	-	-	0 - Closed 1 - Open	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
152	HVBattery charge level	1	Unsigned	0	100	-	%	Estimated charged level of the HV battery	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
937	Cruise Control Active	1	Unsigned	0	1	-	-	0 - Off 1 - On	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
910	Brake switch	1	Unsigned	0	1	-	-	0 - Released 1 - Pushed	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters

928	Lamp Side	1	Unsigned	0	1	-	-	0 - Off 1 - On	EMB150 EMC150 FMM150 FMC250 FMM250 FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
929	Lamp Dimmed	1	Unsigned	0	1	-	-	0 - Off 1 - On	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters
930	Lamp Reflector	1	Unsigned	0	1	-	-	0 - Off 1 - On	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters
932	Lamp Fog Front	1	Unsigned	0	1	-	-	0 - Off 1 - On	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters
931	Lamp Fog Rear	1	Unsigned	0	1	-	-	0 - Off 1 - On	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters
653	Parking Brake State	1	Unsigned	0	1	-	-	0 - Handbrake inactive 1 - Handbrake active	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters
911	Clutch switch	1	Unsigned	0	1	-	-	0 - Released 1 - Pushed	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters
168	Battery Voltage	2	Unsigned	0	65535	-	V	Vehicle Battery Voltage	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters
662	Central Lock	1	Unsigned	0	1	-	-	0 - Closed 1 - Open	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters
944	Seat Belt Status Rear Center	1	Unsigned	0	1	-	-	0 - Released 1 - Pushed	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters
1112	EV HV Battery Voltage	2	Unsigned	0	65535	-	V	Measure of electrical current flow from the high voltage battery	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters
1113	EV HV Battery Current	2	Unsigned	0	65535	-	A	HV battery pack current	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters
1157	EV HV Battery Power	2	Unsigned	0	65535	10	kW	Parameter measures the electrical power output of the high-voltage battery in a vehicle	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters
105	Total Mileage Counted	4	Unsigned	0	4294967295	-	m	Total mileage is the cumulative distance a vehicle has traveled since tracker was installed	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters
107	Fuel Consumed Counted	4	Unsigned	0	2147483647	0.1	l	Total fuel consumed by the engine. Value starts from 0 at the first operation of the engine, it shows the overall value	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters
1156	HV Battery Recuperated Energy	4	Unsigned	0	4294967295	100	kWh	Integral sum of negative power input. Calculating the total amount of energy that has been recuperated by continuously adding up all the negative power values (indicating energy being fed back into the system) over a period of time	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters
1155	HV Battery Consumed Energy	4	Unsigned	0	4294967295	100	kWh	*Integral sum of positive power input. This means calculating the total amount of energy that has been consumed by continuously adding up all the positive power values (indicating energy being used by the system) over a period of time	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters
83	Fuel Consumption	4	Unsigned	0	2147483647	0.1	l	Total fuel consumed by the engine. Value starts from 0 at the first operation of the engine, it shows the overall value	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters
1413	Turn signal left	1	Unsigned	0	1	-	-	0 - Off 1 - On	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters
1414	Turn signal right	1	Unsigned	0	1	-	-	0 - Off 1 - On	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters
325	VIN	17	ASCII	0	0xFF	-	-	Vehicle Identification Number (VIN) as assigned by the vehicle manufacturer.	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters
1418	Electric motor temperature	2	Signed	-40	210	-	°C	Electric motor temperature	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters
1415	Charge port flap	1	Unsigned	0	1	-	-	0 - Closed 1 - Open	EMB150 EMC150 FMM150 FMC250 FMM250	CAN adapters

CAN I/O extended elements

For extended elements availability, please contact your sales manager or support.

Property ID in AVL packet	Property Name	Bytes	Type	Value range Min Max	Multiplier	Units	Description	HW Support	Parameter Group
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660	Automatic Transmission Lever State P	1	Unsigned	0	1	-	-	0 - Inactive 1 - Active	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
661	Automatic Transmission Lever State R	1	Unsigned	0	1	-	-	0 - Inactive 1 - Active	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
659	Automatic Transmission Lever State N	1	Unsigned	0	1	-	-	0 - Inactive 1 - Active	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
927	Automatic Transmission Lever State D	1	Unsigned	0	1	-	-	0 - Inactive 1 - Active	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1158	Engine Oil Pressure	2	Unsigned	0	65535	1	kPa	Engine oil pressure	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1159	Engine Oil Level	1	Unsigned	0	100	1	%	Engine Oil Level in vehicles is the measurement of the amount of oil in the engine, indicating whether it is within the optimal range for proper lubrication and operation	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1137	Steering Wheel Angle	2	Signed	-32768	32767	0.1	°	Parameter measures the rotational position of the steering wheel in degrees, indicating the direction and extent to which the wheel is turned	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1358	Steering Wheel Direction Left	1	Unsigned	0	1	-	-	0 - Not left 1 - Left	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1359	Steering Wheel Direction Right	1	Unsigned	0	1	-	-	0 - Not right 1 - Right	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1360	EV ECO Switch	1	Unsigned	0	1	-	-	0 - Off 1 - On	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1362	Position Status of All doors	1	Unsigned	0	1	-	-	0 - Closed 1 - Open	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1331	Transmission Selected Gear	2	Singed	-128	128	-	-	Gears: • Values 0 to 14 represent Reverse gear -15 to -1 • Value 15 represents Neutral gear • Value 16 represents Crawling gear • Values 17 to 31 represent Forwards gear 1 to 15	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1332	Transmission Current Gear	2	Singed	-128	128	-	-	Gears: • Values 0 to 14 represent Reverse gear -15 to -1 • Value 15 represents Neutral gear • Value 16 represents Crawling gear • Values 17 to 31 represent Forwards gear 1 to 15	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1333	Steering wheel turn counter	1	Unsigned	-32	29	-	-	Parameter measures the cumulative number of full or partial rotations of the steering wheel, indicating how many times and how far the wheel has been turned.	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1361	Ramp/WheelChairLift Status	1	Unsigned	0	0	-	-	0 - Inside 1 - Outside	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1335	Exhaust Fluid Tank level	1	Unsigned	0	255	-	%	Exhaust fluid tank level	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1336	Bellow pressure FR axle	2	Unsigned	0	65535	0.1	kPa	Current bellow (air spring) pressure FR axle	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1337	Bellow pressure FL axle	2	Unsigned	0	65535	0.1	kPa	Current bellow (air spring) pressure Fl axle	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1338	Bellow pressure RR axle	2	Unsigned	0	65535	0.1	kPa	Current bellow (air spring) pressure RR axle	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1339	Bellow pressure RL axle	2	Unsigned	0	65535	0.1	kPa	Current bellow (air spring) pressure RL axle	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1364	Vehicle Overspeed	1	Unsigned	0	1	-	-	Overspeed indication is received from the vehicle	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1220	Gross Combination Vehicle Weight	2	Unsigned	0	65535	10	kg	Combination vehicle weight	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1341	Gaseous Fuel Rate	2	Unsigned	0	65535	0.1	kg/h	Gaseous fuel rate	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1366	Alternator Status 1	1	Unsigned	0	1	-	-	0 - Not charging 1 - Charging	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1367	Alternator Status 2	1	Unsigned	0	1	-	-	0 - Not charging 1 - Charging	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters

1368	Alternator Status 3	1	Unsigned	0	1	-	-	0 - Not charging 1 - Charging	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1369	Alternator Status 4	1	Unsigned	0	1	-	-	0 - Not charging 1 - Charging	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
102	Engine Total Hours	4	Unsigned	0	16777215	-	min	Engine work time in minutes	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
118	Axle 1 Load	2	Unsigned	0	32768	-	min	Axle 1 load	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
119	Axle 2 Load	2	Unsigned	0	32768	-	min	Axle 2 load	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
120	Axle 3 Load	2	Unsigned	0	32768	-	min	Axle 3 load	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
121	Axle 4 Load	2	Unsigned	0	32768	-	min	Axle 4 load	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
122	Axle 5 Load	2	Unsigned	0	32768	-	min	Axle 5 load	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1342	Axle 6 Load	2	Unsigned	0	32768	-	min	Axle 6 load	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1270	Engine Oil Temperature	1	Singed	-60	127	-	°C	Engine oil temperature	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1343	Engine Fuel Temperature	2	Singed	-40	210	-	°C	Engine fuel temperature	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1344	Cruise Control Set Speed	1	Unsigned	0	255	-	km/h	Cruise control set speed	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1345	Instant Fuel Economy	1	Unsigned	0	255	-	km/l	Instant fuel economy	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1352	Engine Air Intake Pressure	2	Unsigned	0	65535	-	kPa	Engine air intake pressure	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1373	Door 1 Lock Status	1	Unsigned	0	1	-	-	0 - Locked 1 - Unlocked	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1374	Door 2 Lock Status	1	Unsigned	0	1	-	-	0 - Locked 1 - Unlocked	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1375	Door 3 Lock Status	1	Unsigned	0	1	-	-	0 - Locked 1 - Unlocked	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1376	Door 4 Lock Status	1	Unsigned	0	1	-	-	0 - Locked 1 - Unlocked	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
936	AC On	1	Unsigned	0	1	-	-	0 - Off 1 - On	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
956	ESP Enabled	1	Unsigned	0	1	-	-	Signal data is only available if the vehicle is equipped with ESP system and function can be disabled by driver. 0 - Off 1 - On	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
TBA	Torque at current Speed	0	Unsigned	0	0	-	%	The % value of the output torque compared to the maximum available torque on the current RPM	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
114	Engine Torque	1	Unsigned	0	130	-	%	The % value of the calculated output torque compared to the maximum torque (reference torque) of the engine. It includes engine friction torque and estimated parasitic losses as well.	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1396	Ambient Air Temperature	1	Signed	-60	127	-	°C	Temperature of air surrounding vehicle	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1397	ASR Enabled	1	Unsigned	0	1	-	-	0 - Off 1 - On	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters
1416	Windscreen Wiper	1	Unsigned	0	1	-	-	0 - Off 1 - On	FMB150 FMC150 FMM150 FMC250 FMM250	CAN adapters

Power takeoff (PTO) is an optional system for trucks for taking power from the engine and transmitting it to an attached accessory, e.g. hydraulic pump (for mobile crane, concrete transport truck, garbage collector).

Values:

- 0 - Off
- 1 - Hold
- 2 - RemoteHold
- 3 - Standby
- 4 - RemoteStandby
- 5 - Set
- 6 - Decelerate
- 7 - Resume
- 8 - Accelerate
- 9 - AccelerateOverride

[FMB150](#)
[FMC150](#)
[FMM150](#)
[FMC250](#)
[FMM250](#)

CAN adapters

946

PTO state

1

Unsigned

0

1