

## Recommended Bus-Fms-standard messages implementation

Ref. fms document\_v\_04\_vers.13.10.2017

PGN	SPN	SPN description	Requirement
F000	520	Actual Retarder - Percent Torque	D
F000	900	Retarder Torque Mode	D
F000	1716	Retarder Selection, non-engine	D
F001	521	Brake Pedal Position	D
F003	91	Accelerator pedal position	D
F004	190	Engine speed	M
F004	513	Actual Engine - Percent Torque	D
F005	523	Current Gear	D
F005	524	Selected Gear	D
FCB7	5464	Hybrid Battery Pack Remaining Charge	H/E
FD09	5054	High resolution engine total fuel used	M
FDA5	3412-3441	Doors status	D
FDC2	5837	Fuel Type	D
FE4E	1821	Position of doors	M
FE56	1761	Aftertreatment 1 Diesel Exhaust Fluid Tank Level	M
FE58	1725-1728	Bellows Pressure	D
FE6B	1625	Driver 1 identification	D
FE6B	1626	Driver 2 identification	D
FE6C	1614	Vehicle Overspeed	D
FE70	1760	Gross Combination Vehicle Weight	M
FEAE	1087	Service Brake Air Pressure Circuit #1	D
FEAE	1088	Service Brake Air Pressure Circuit #2	D
FEAF	1040	Total Fuel Used (Gaseous)	G
FEC1	917	High resolution total vehicle distance	M
FED5	3353-3356	Alternators Status	D
FEE5	247	Engine total hours of Operation	M
FEE9	250	Engine Total Fuel Used	M
FEEC	237	Vehicle identification number	M
EEEE	110	Engine coolant temperature	M
FEF1	70	Parking Brake Switch	M
FEF1	84	Wheel based speed	M
FEF1	597	Brake switch	M
FEF2	183	Fuel Rate	M
FEF5	171	Ambient Air Temperature	D
FEFC	96	Fuel Level 1	M

### LEGENDA

M	Recommended (for telediagnosics, ecodriving or load monitoring applications)
G	Recommended for gas vehicles applications
H/E	Recommended for electric / hybrid vehicles
D	Desirable

NOTE: The description of the bus-fms-standard protocol can be downloaded from the site [www.fms-standard.com](http://www.fms-standard.com)

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