

Fuel flow meter **euroSENS Direct/Delta CAN**

Description of CAN messages (SAE J1939)

Table 1. Standard PGN and SPN according to SAE J1939

№	PGN	SPN	Parameter	Position of meaningful bytes in the PGN	Length of SPN, bytes	Range of parameter	Resolution/bit	Offset	Units
1.	65257 (FEE9)	182	Fuel consumed since flow meter power ON	1-4	4	from 0 to 2105540607.5	0.5 l	0	liter
2.	65257 (FEE9)	250	Fuel consumed (not resettable)	5-8	4	from 0 to 2105540607.5	0.5 l	0	liter
3.	64777 (FD09)	5053	Fuel consumed since flow meter power ON – high resolution	1-4	4	from 0 to 4211081.215	0.001 l	0	liter
4.	64777 (FD09)	5054	Fuel consumed (not resettable) – high resolution	5-8	4	from 0 to 4211081.215	0.001 l	0	liter
5.	65266 (FEF2)	183	Instant fuel consumption	1-2	2	from 0 to 3212.75	0.05 l/hour	0	liter/hour
6.	65253 (FEE5)	247	Time of fuel flow	1-4	4	from 0 to 210554060.75	0.05 hour	0	hour
7.	65262 (FEEE)	174	Fuel temperature (supply line)	2	1	from -40 to 210	1°C	-40	°C

Table 2. Extra PGN, not described by SAE J1939

№	PGN	Parameter	Position of meaningful bytes in the PGN	Length of SPN, bytes	Range of parameter	Resolution/bit	Offset	Units
8.	65360 (FF50)	Idle volume	1-4	4	from 0 to 4,211,081.215	0.001 l	0	L
9.	65360 (FF50)	Volume in nominal mode	5-8	4	from 0 to 4,211,081.215	0.001 l	0	L
10.	65361 (FF51)	Volume in overload mode	1-4	4	from 0 to 4,211,081.215	0.001 l	0	L
11.	65361 (FF51)	Volume in tamper mode	5-8	4	from 0 to 4,211,081.215	0.001 l	0	L
12.	65362 (FF52)	Negative volume	1-4	4	from 0 to 4,211,081.215	0.001 l	0	L
13.	65362 (FF52)	External magnet field time	5-8	4	from 0 to 210,554,060.75	0.05 hour	0	Hour
14.	65363 (FF53)	Total volume of supply chamber	1-4	4	from 0 to 4,211,081.215	0.001 l	0	L
15.	65363 (FF53)	Tamper volume of supply chamber	5-8	4	from 0 to 4,211,081.215	0.001 l	0	L
16.	65364 (FF54)	Total volume of return chamber	1-4	4	from 0 to 4,211,081.215	0.001 l	0	L
17.	65364 (FF54)	Tamper volume of return chamber	5-8	4	from 0 to 4,211,081.215	0.001 l	0	L

18.	65365 (FF55)	Fuel flow in the supply chamber	1-2	2	from 0 to 3,212.75	0.05 l/h	0	liters/h
19.		Fuel temperature in the supply chamber	3	1	from -40 to 210	1 C	-40	Celsius
20.		Current mode : flags*	4	1	See below table			
21.		Fuel flow in the return chamber	5-6	2	from 0 to 3,212.75	0.05 l/h	0	liters/h
22.		Fuel temperature in the return chamber	7	1	От -40 до 210	1 C	-40	Celsius
23.		Firmware version	8	1	Firmware version			
24.	65366 (FF56)	Total engine operation time	1-4	4	От 0 до 4,211,081.215	1 c	0	c
25.	65366 (FF56)	Time of negative consumption	5-8	4	От 0 до 210,554,060.75	1 c	0	c
26.	65367 (FF57)	Idle mode time	1-4	4	От 0 до 4,211,081.215	1 c	0	c
27.	65367 (FF57)	Nominal mode time	5-8	4	От 0 до 4,211,081.215	1 c	0	c
28.	65368 (FF58)	Overload mode time	1-4	4	От 0 до 4,211,081.215	1 c	0	c
29.	65368 (FF58)	Intervention time	5-8	4	От 0 до 4,211,081.215	1 c	0	c

* System flags (0 – not active, 1 - active)

Bit number	Description
0	Current mode : idle
1	Current mode : nominal mode
2	Current mode : overload
3	Current mode : tamper
4	Current mode : negative
5	External magnet field detected
6 – 7	Not used