

Fuel data interface ECOsens®

Providing fuel levels and status values of a vehicle, the fuel data interface ECOsens is optimized especially for telematic applications, where data from FMS may not be accurate enough or FMS is may not be available.

The fuel data interface still provides reliable data when ignition is turned off, whereas data provided from CAN/FMS is not available during those periods. Available fuel data is a main requirement for checking fuel thefts which mainly occur when a vehicle is parked.

Resolution and accuracy of the fuel sensors are optimized for identification and reporting of fuel events like refills and fuel thefts from the fuel tanks. For longer report periods the calculated fuel consumption will more accurate and more reliable than data provided by the vehicle by CAN/FMS.



Interface box

Size L x W x H: 45mm x 115mm x 33mm

Supply: 12-24 VDC/ 15mA

Input signals: Tacho counter (Pulses), 3 x status, sensor bus

Communication interface: RS232 (opt. RS485/CAN)

Output protocol: customized

Einbauort: Truck cabin

Included: 1 pcs. supply cable (6 pins)

Fuel sensor (1 pcs. for each fuel tank)

Resolution level: 0 - 512 (9 Bit) solid state

Resolution temperature: 0,5°C

Supply: 12 VDC/ 4 mA by interface box

Standard lengths: 370/415/465/485/550/610/690 mm

Custom lengths: 250 - 2.500 mm

Opening mount: Fuel sensor bajonet 55/50mm

Included: 1 pcs. fuel sensor cable 9m, 1 pcs. O-ring 55mm

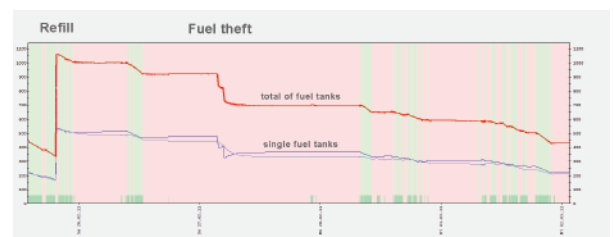
Wide area of reporting opportunities based on provided data

Week	Period Start	mileage km		km/h	Time			Sp	Engine idle liter/Lh ₁	Hydraulic Const. Lh ₂	Consumption		
		km Start	driven k		Work h	hrs go	hrs idle				Hyd h	Const. no Hyd	L/100km
11-01	02.01	195.548	3.359	76	51,9	43,9	8,0	132	31	0,6	1.058	31,5	31,5
11-02	09.01	198.907	3.224	75	53,6	43,1	10,5	96	46	0,9	1.028	31,9	31,9
11-03	16.01	202.131	3.291	77	58,0	42,9	15,1	100	67	1,2	1.019	31,0	31,0
11-04	23.01	205.422	2.101	69	41,1	30,3	10,8	162	44	1,1	647	30,8	30,8
11-05	30.01	207.523	2.864	74	49,5	39,0	10,5	82	43	0,9	967	33,8	33,8
11-06	06.02	210.387	3.276	74	54,4	44,4	10,0	90	39	0,7	984	30,0	30,0
11-07	13.02	213.663	3.212	75	54,3	42,8	11,5	116	46	0,8	1.070	33,3	33,3
11-08	20.02	216.875	3.362	77	54,0	43,7	10,3	107	38	0,7	1.074	31,9	31,9
11-09	27.02	220.237	3.010	75	50,6	40,3	10,2	93	41	0,8	971	32,3	32,3
11-10	06.03	223.247	2.526	44	23,8	57,0	16,8	114	64	0,9	788	31,2	31,2
11-11	13.03	225.773	3.550	76	49,9	46,6	3,3	95	13	0,3	1.102	31,0	31,0
TR-UCK999		229.323	33.775	71	591	474	117	108	472	0,8	10.708	31,7	31,7

Total fuel consumption and specific consumption (L/100km) for any selected period

date time	event name	mileage km	L/100km	refill L	invoice L	deviation L	invoice check status
16/03/2011 15:12	Refill	228.909.5	31.2	961			(yet) unchecked
14/03/2011 05:14	Refill	225.840.1	31.7	901			(yet) unchecked
04/03/2011 06:35	Refill	222.965.8	33.1	683			(yet) unchecked
01/03/2011 07:01	Refill	220.885.6	31.0	781			(yet) unchecked
28/02/2011 09:34	Refill	220.519.8	31.6	299			(yet) unchecked
21/02/2011 20:43	Refill	217.490.2	23.5	967	975	8	checked o.k.
15/02/2011 17:36	Refill	214.583.8	31.3	385	380	-5	checked o.k.
11/02/2011 12:26	Refill	213.358.7	30.2	762	765	3	checked o.k.
07/02/2011 20:51	Refill	210.832.1	32.9	629	630	1	checked o.k.
02/02/2011 06:33	Refill	208.919.2	31.4	522	524	2	checked o.k.
28/01/2011 18:40	Refill	207.244.6	30.4	643	641	-2	checked o.k.
21/01/2011 09:57	Refill	205.142.7	31.9	771	871	100	invoice too high
17/01/2011 15:01	Refill	202.749.1	33.0	758	765	7	checked o.k.
12/01/2011 07:32	Refill	200.418.9	29.0	841	841	0	checked o.k.
05/01/2011 18:11	Refill	197.533.0	33.3	955	953	-2	checked o.k.
04/01/2011 19:17	Refill	196.648.3	32.3	197	200	3	checked o.k.
28/12/2010 18:28	Refill	194.008.9	29.9	426	420	-6	checked o.k.
23/12/2010 14:31	Refill	192.618.7	32.8	885	883	-2	checked o.k.
17/12/2010 12:37	Refill	189.866.1	30.2	446	445	-1	checked o.k.
15/12/2010 08:01	Refill	188.377.5	29.4	436	434	-2	checked o.k.
11/12/2010 08:01	Refill	186.905.6	32.6	762	763	1	checked o.k.
07/12/2010 07:23	Refill	184.560.0	27.4	693	694	1	checked o.k.
06/12/2010 11:33	Refill	184.187.0	32.3	191	200	9	checked o.k.
30/11/2010 08:39	Refill	181.767.4	37.9	661	688	27	checked o.k.
25/11/2010 05:54	Refill	180.024.4	33.6	504	508	4	checked o.k.

Refill list with fuel invoice validation (comparison of measured and invoiced values)



Fuel tank theft detection and graphic display of fuel theft events and vehicle status

