

# E-100DG Diesel Conversion Kits Manual

**Software Manual** 



### I. [F2] readings

Energia Italy PRIME Diesel v7.844	PRM Rev.H:5 Rev.S:29 F.0 Iadd1.0	Iadd2.0 ## SM048 USB1(COM6	) *PCID:0xFC6DFF49 @CD: 1	SN: 140000	1	
<u>file port options language h</u>	elp					
1,0 1,5 2,0 0,5 P[Bar] 2,5 0,0 9,0 -3,0 pres.diff. 1,37	2, 3 1, 5	rs   [-4jadjustment   [-5jd TPS (0-5 V): 0,0 V	date         conn           Y:2000 M:0 D:0         0x00           Y:2000 M:0 D:0         0x00           Y:2000 M:0 D:0         0x00	emulator nection ID 0000000 0000000 0000000	injectory type: Injector N/A 0,0048200	Adap
pres.boost 1,59 pres.abs. 2,37 rpm 2425	RPMx1000 0 6 1,0 1,5 2,0	temperature [°C] gas 10 °C	set PIN	4,16	0,1064   delete fuel rate	0,4 CALC
Lgas 10 °C Ugas 10 °C 10 °C 10 °C 09 °C 10 °C	0,5 0,0 P[ <b>B</b> ar] -3,0	regulator 09 °	step	0	0,0000 L diesel LOCK STATUS: UN lock gas	Diesel ILOCKED unlock gas
503 ℃ TPS (0-5 V): 0,0 V inj61.stc. inj62.stc.	RPM TP	S (0-5V) ↓ VDC(AKU)	EGT			
o,o o % status auto gas	308849 2425,00					5

- 1. Software name, version and menu bar. Top bar displays software version and the number of COM port where the PC interface is connected. Available options in the software menu.: save/load parameters, language selection, help, etc.
- 2. Side visualization panel. Visible on every screen. Displayed parameters (form the top):
  - Pressure: differential (displayed also graphically on a meter), vacuum (in the intake manifold) and gas pressure in the injectors (absolute).
  - RPM: engine's revolution speed.
  - Temperature: gas and reducer's temperature.
  - Lights indicating when following options are active:
- ignition
- rpm (red light if rpm signal is missing)
- cut off
- cruise control
- min and max rpm
  - Gas level in the tank –displaying level sensor's voltage and visualization of LEDs in the switch.
  - EGT temperature.
  - TPS voltage.
  - Injector 1 and 2 status (click to switch injectors on and off).
  - Current map value (gas dosage) and injectors' load in %.
  - System status.
  - Work mode (diesel, automatic, gas) click to select.



- 3. Central visualization panel. Displayed parameters:
  - Rpm and pressure displayed graphically on meters.
  - Temperature: gas and reducer's temperature.
  - Gas level in the tank.
  - Step current map value (gas dosage).
  - Date and connection ID list of computers that have been connected to current ECU.
  - Set PIN option used to secure the ECU from unauthorized entry. Connection will be possible only after input of PIN number set by the installer. This function is optional.
- 4. Fuel rate panel. Used to determine fuel consumption. Available only with telemetry ECU (offered separately).
- 5. Oscilloscope. Graphic display of selected parameters in real time.

### II. [F2] parametrs

Energia Italy PRIME Diesel v7.844	PRM Rev.H:5 Rev.S:29 F.0 Ia	dd1.0 Iadd2.0 ## SM048 USB1(COM	M6) *PCID:0xFC6DFF49 @CD: 1 SN: 140000	
file port options language he	EP	meters [F4]adjustment [F5]	diagnostic emulator advance	ed cutoff firmware undate Adap
1,0 1,5 2,0	rom signal		Power -ff	
0,5	rpm type	<b>•</b>		
0,0	ECT sensor		TPS connection	
pres.diff. 1.37	EGT max	×	TPS not connected!	
pres.boost 1,59		7 629°C 👻	2	
pres.abs. 2,37		o engine		
rpm <u>2425</u>	TD concor	4k/(SM033)	LPG	
t.gas 10 °C		4k7(SM033)	Inj time x2:	
	MAD	Freescale 4.0 BAR(SN -		
rpm max.rpm	MAF	Freescale 4.0 Bar(SM	save data if 24->12V converter	
cruise controll:	min.pres.[Bar] 1,2	delay[s] 1,0	level	
gas level [V]:	on temp.[°C] 35	•	<sup>1</sup> 0,35 ↓ ref.time[s] 3	
level 4,16	on rpm	0	3/4 25 🜩	
EGT	on Delay 2,0	-	0,3 invert sensor	
TPS (0-5 V):	minimum rpm:	500 🔶 off 💌	0,22	
0,0 V	maximum rpm:	6000 🔶 off 💌	1/4 0-90 -	
inj61.ed. inj62.ed.	Regulator vac	um/boost disconnected 🝷	E <sup>0,12</sup>	
status oute	work time diesel: 796	60 [s]88,49 [%]	always save work time, fuel rate	
diesel auto gas	work time gas: 1035	[s] 11,51 [%]		<b>H</b>

- 1. Main parameters:
  - Rpm signal. Type of rpm signal.
  - Rpm type. Type of rpm system.
  - EGT sensor. Switches EGT readings on/off.



- EGT max. Select maximum EGT temperature. Gas supply will be cut above the selected value.
- Turbo. Select engine type with or without turbine.
- Sensors (gas & reducer temp, gas pressure and MAP). The default settings are compatible with sensors provided in the set.
- Min. Pres. Minimum work pressure. System will switch back to diesel mode below this value (empty tank).
- Delay. The delay of switching of gas supply (when pressure below minimum) in seconds.
- On temp. Temperature of switching on gas supply in °C.
- On rpm. Revolutions of switching on gas supply.
- Minimum / maximum rpm. Bottom and top values of rpm between which gas supply is on.
- Regulator. Select whether the regulator has been connected to manifold with silicon hose or not. Standard configuration is without reducer connection to manifold. The vacuum nozzle of reducer should remain open and not connected.
- Work time diesel / gas. Time of the system operation on diesel and diesel/gas given in seconds and %.
- 2. Additional parameters.
  - Power. Select engine's horse power.
  - TPS connection. Select where the TPS is connected (which emulator).
  - LPG/CNG. Select gas type.
  - Double injection time. Doubles the values on the map (F4 → p.3). When choosing CNG in the option above, this parameter is automatically changed to x2, due to higher CNG gas demand.
  - Save data if 24V → 12V converter. Saves parameters. When using power converter, click this button before switching off ignition, to make sure that the parameters are saved.
- 3. Level sensor's settings. Select sensor from the list or input data manually.
- 4. Select if you want ECU to remember work times and fuel rates.

#### III. [F4] adjustment



Energia Italy PRIME Diesel v7.844 PRM Rev.H:5 Rev.S:29 F.0 Jadd1.0 Jadd2.0 ## SM048 USB1(COM6) *PCID:0xFC6DFF49 @CD: 1 SN: 140000									
<u>file port options l</u> anguage <u>h</u>	elp	1	1	-	1 1	1 1		1	1 1
1.0 1,5 2.0	[F2]readings	ameters	[F4]adjustmen	t [F5]diagnost	ic	emulator	advanced cutoff	firmware upd	ate Adap
0.5 25	work press	ure	1,5 🕂 IE	ar]	cruise control	▼ SET 1	000 韋 (rpn		
P[Bar]	0,95 1 1,05 1,1	1,15 1,2 1,3 1,35 1,	4 1,5 1,6 1,7 1,8	1,9 2 2,1 2,2 2,4	4 2,6 2,8 3 3,2 3	3,4 3,6 +1 +5	,1 🚖 [Bar	1 <b>2</b>	
0,0	0 0 5 10	15 20 22 24 26	28 30 35 40 4	45 50 55 60 65	70 70 68 65 6	55 -1 -5 0	5 🔶 [s]		
pres.diff. 1,37	bar/rpm	800	1100	1500	2000	2500	2800	3000	3500
pres.boost 1,59	0,9	0	10	15	12	12	12	13	10
pres.abs. 2,37	1,05	0	10	15	20	21	20	15	10
rpm 2400	1,1	0	15	15	22	25	22	20	10
t.gas 10 °C	1,15	0	20	25	35	30	24	21	10
t.regulator 09 °C	1,2	15	25	40	45	34	28	23	10
ignition min.rpm	1,25	25	38	50	45	35	30	23	10
rpm max.rpm	1,3	30	45	68	70	60	45	23	10
cutoff:	1,35	40	50	72	85	60	45	24	10
gas level [V]:	1,4	45	75	85	99	85	60	28	10
level 4,16	1,5	38	49	75	80	65	50	27	10
EGT	1,6	30	44	65	70	58	40	23	10
503 °C	1,7	25	40	60	65	60	45	22	10
1PS (0-5 V): 0.0 V	1,8	22	33	45	56	55	34	22	10
the second stress of	1,9	18	22	30	33	35	32	21	10
	2	15	20	22	23	21	20	20	10
status auto	2,1	10	10	10	10	10	10	10	10
diesel auto gas									
	mod.char.pd	oints map ty	pe 2:vacun	n/rpm	- +	-5 -5			and the second
			map smo	oth sm	nooth +	·1 -1			2
			map rese	t -	-				3
			11001000						

- 1. Work pressure. Set the actual reducer's pressure during drive.
- 2. Cruise control settings and map. When vehicle uses cruise control, the system can detect it and switch from the main map (p. 3) to cruise control map. Here you can enable this function, set detection parameters (rpm, pressure and time after which system switches to cruise control) and set cruise control map.
- Main map. You can adjust gas dosage here. Values range from 0 to 254. 0 means no gas injected (cut off), 254 is maximum gas dosage. Gas dosage can be doubled (in case of extremely large engines) by choosing **double injection time** option on parameters page (F3). To change map parameters, select a single field or an area and click -/+ 1, -/+ 5 buttons, or press enter and input a specific value.
  - Map type. Allows to change type of map (vacuum/TPS, vacuum/rpm, vacuum/MAF TPS/rpm or vacuum only), depending which sensors are available in the vehicle.
  - Mod. char. points. Click the check-box to change range of X and Y axis of the map. You can input values manually or select predefined ranges from the list. **Un-check to save changes.**
  - Smooth. Click to make the map smoother to diminish large differences between map values.
  - Map reset. Predefined map settings. Can be used as a base for further map adjustment.

#### IV. [F5] Diagnostic

ECU



Energia Italy PRIME Diesel v7.844	4 PRM Rev.H:5 Rev.S:29 F.0 Iadd1.0 Ia	dd2.0 ## SM048 USB1	(COM6) *PCID:0xFC6DFF49 @	@CD: 1 SN: 140000			
<u>file port options language h</u>	Jelb						
1,0 1,5 2,0 0,5 P[Bar] -3,0 pres.diff. pres.boost 1,38 pres.dos	[F2]readings [F3]parameters ecu OBD data logge	s   [F4]adjustment	[F5]diagnostic	emulator	advanced cutoff	firmware update	Adap
rpm 2425 t.gas 10 °C ignition min.rpm rpm max.rpm cruise controll: cutoff:	return to gas after error Ves v 1085 [operations/sec]		er	ase errors			1
gas level [V]: level 4,16 EGT 503 °C TPS (0-5 V): 0,0 V injolesta 0,0 0 % status auto diese] auto gas	1,05 V     E1.off.       2,02 V     E2.off.       3,07 V     E3.off.       1,04     Dgt.Em off.	i,05 v K1: 0 2,)3 v K2: 0 3,07 v K3: 0 1,04 D1: 0 0,11 D2: 0	% % %	Diagnostics off	3		

- 1. Error window. Displays errors history.
  - Return to gas after error. Option of the ECU's reaction to an error. The ECU can either go to automatic mode or go to diesel mode after an error occurs. The reaction will be applied after switching the engine off and on again.
  - Show/erase errors. Displays error and allows to erase them.
- 2. Emulation diagnostics. Shows values on input and output of every connected emulator, percentage value of emulation and allows to switch them on and off.
- 3. System's diagnostics. Possible only when engine is turned off. Allows to test every part of the PRIME system.

OBD

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Energia Italy PRIME Diesel v7.844	4 PRM Rev.H:5 Rev.S:29 F.0 Iadd1.0 Iadd2.0	## SM048 USB1	(COM6) *PCID:0xFC	6DFF49 @CD: 1 SN	I: 140000			e <mark>x</mark>
tile port options language	IE2)readings [E3]parameters [F	4]adjustment	[E5]diagnostic	1 1	emulator advan	ced cutoff firm	ware update Ada	
1,0 <sup>1,5</sup> 2,0 0,5 2,5	ecu OBD data logger	Jugusanen	[i sjulugnosue	]]			Hare aparte Aug	<u>P</u>
P[Bar]	OBD error	signals	min. all time	max. all time	min. from key on	max. from key or	actual	
0,0- <b>Y</b> -3,0	erase OBD errors	Vlevel (G)	wait for data.	wait for data	wait for data	wait for data	4,16 V	
pres.diff. 1,44		EGT	503,10 °C	506,30 °C	503,50 °C	503,80 °C	503,50 °C	
pres.boost 1,59		PresG	2,17 Bar	2,62 Bar	2,38 Bar	2,38 Bar	2,38 Bar	
rpm 2425		Boost	1,54 Bar	1,54 Bar	1,54 Bar	1,54 Bar	1,54 Bar	
2425		Tr	9,00 °C	9,00 °C	9,00 °C	9,00 °C	9,00 °C	
t.gas 10 °C		Tg	10,00 °C	10,00 °C	10,00 °C	10,00 °C	10,00 °C	
Lregulator 09 °C		VDC	12,82 V	12,84 V	12,83 V	12,84 V	12,83 V	
ignition min.rpm		AninE1	1,05 V	1,05 V	1,05 V	1,05 V	1,05 V	
cruise controll:		AnInE2	2,02 V	2,03 V	2,02 V	2,03 V	2,02 V	
cutoff:		AnInE3	3,07 V	3,08 V	3,07 V	3,07 V	3,07 V	
gas level [V]:		AnOutE1	1,05 V	1,05 V	1,05 V	1,05 V	1,05 V	
evel 4,16		AnOutE2	2,02 V	2,03 V	2,03 V	2,03 V	2,03 V	
EGT		AnOutE3	3,07 V	3,08 V	3,07 V	3,08 V	3,07 V	
TPS (0-5 V):		N/D	wait for data	wait for data	wait for data	wait for data		
0,0 V		N/D	wait for data	wait for data	wait for data	wait for data		
inipi2.st. inipi2.st. 0,0 0% status auto diese) auto gas			1		2		3	

Option available only when ECU is connected to OBD. Allows to see OBD parameters and erase OBD errors. The table displays following values:

- 1. Max. and min. parameters values from the beginning of installation.
- 2. Max. and min. parameters values from current engine start.
- 3. Current parameters.

Note: all parameters reset if ECU is disconnected from battery.

#### **DATA LOGGER**



Energia Italy PRIME Diesel v7.844	4 PRM Rev.H:5 Rev.S:29 F.0 Iadd1.0 Iadd	2.0 ## SM048 USB1(COM6) *PCID:0xFC6	DFF49 @CD: 1 SN: 140000	
<u>file port options language h</u>	help			
1,0 1,5 2,0 0,5 1,0 1,5 2,0 0,5 1,0 1,5 2,5	[F2]readings     [F3]parameters       ecu     OBD     data logger	[F4]adjustment [F5]diagnostic _	emulator advanced cutoff	firmware update Adap
0,0- P[bar]	start recording	stop recording		
pres.diff.         1.44           pres.boost         1,59           pres.abs.         2,44           rpm         2425	replay saved recording	stop replay		
t.gas t.regulator ignition rpm cruise controll: cutoff:				
gas level [V]: level 4,16 EGT TPS (0-5 V): 0,0 V 10/92-st. 0,0 0 %				
status auto gas				

Option allows to record parameters during drive, save them to a file and replay afterward.

V. Additional adjustment





- 1. Maps with additional adjustment. Allow you to set additional gas dosage according to (from top): gas temperature, manifold pressure, gas pressure, reducer temperature and differential pressure.
- 2. Enabled errors. You can choose which errors will be detected or ignored by the system.
- 3. TPS cut off. Select TPS voltage, below which TPS cut off will be active and time in ms, after which it will kick in.
- 4. Advanced and do not modify DO NOT MODIFY!

VI. Emulator





- 1. DNA hybrid emulator panel.
  - Analog emulator 1,2,3, digital emulator on/off. Allows to switch each emulator on/off. Do not modify the value "10" under the digital emulator.
  - Digital smoothing. Select this option to make digital emulation smoother. Select desired channel (D1 – digital emulator 1 or D2 – digital emulator 2) and type of signal – increasing or decreasing.
  - Minimum & maximum TPS signal value. Applies only to digital TPS. Select range of output (emulated) TPS signal value. This option is used to prevent errors from OBD when output signals are too high/low.
  - Frequency emulation. Select this option when emulating a digital frequency signal (e.g. from a digital frequency air flow meter).
- 2. DNA hybrid emulation maps.
  - Top map. This map allows to set emulation according to emulated signal's value. The upper bar represents the signal's voltage. You can change the range by clicking **mod. char. points** (un-click to save). Set individual emulation strength (in percentage) for active analog emulator (E1, E2, E3) and/or digital emulator (De1, De2) by selecting a single field or area and clicking +/- 1 and +/- 5 buttons. Use the on/off button to activate / deactivate map.
  - Bottom map. This map allows to set emulation according to map value. The upper bar represents the map values. Set individual emulation strength (in percentage) for active analog emulator (E1, E2, E3) and/or digital emulator (De1, De2) by selecting a single field or area and clicking +/- 1 and +/- 5 buttons. Use the on/off button to activate / deactivate map.



## VII. Advanced cut-off

Energia Italy PRIME Diesel v7.844	4 PRM Rev.H:5 Rev.S:29 F.0 Jadd1.0 Jadd2.0 ## SM048 USB1(COM6) *PCID:0xFC6DFF49 @CD: 1 SN: 140000
<u>file port options language l</u>	help
10 1,5 20	[F2]readings [F3]parameters [F4]adjustment [F5]diagnosticemulator advanced cutoff firmware update Adap
2,0	Advanced cut-off options
0,0 DIRarl	analog input E1 confirm
0,0-	off analog input E2 confirm 0.00
	off analog input E3 confirm 0.00
pres.diff. 1,42	off digital input De1 confirm 0.00 💮
pres.b005t 1,59	digital input De2 confirm
	off diesel freq. inj. input confirm 50,0 🖨 Freqinj: 21,92 [Hz]
rpm 2425	S1 external input S1 off
t.gas 10 °C	set emulation to 0 during cut-off 🗾 👻
t.regulator 09 °C	
ignition 📕 min.rpm	147/14/12/00/226/257/249/357/249/351/351/953/25/25/260/052/259/95/25/25/35/35/35/35/35/35/35/35/35/35/35/35/35
rpm max.rpm	
cutoff:	
gas level [V]:	
level 14,16	
EGT	
503 °C	
TPS (0-5 V):	
0,0 V	
inj@1.ert. inj@2.ert.	
0,0 0 %	
status auto	
diesel auto gas	

- 1. Advanced cut-off options. This option allows to set cut-off from every signal connected to the ECU (analog or digital). When cut-off is active the gas supply is immediately stopped. Select the signal and signal's level at which the cut-off should occur. The best results are with the diesel frequency injector signal. You can also choose to stop emulation during cut-off (set emulation to 0 during cut-off).
- 2. Additional map according to EGT temperature. You can set additional correction from EGT temperature. In case the EGT gets too high, you can use this map to decrease gas dosage at higher EGT values.

#### VIII. Firmware update



Energia Italy PRIME Diesel v7.844	PRM Rev.H:5 Rev.S:29 F.0 ladd1.0 ladd2.0 ## SM048 USB1(COM6) *1	PCID:0xFC6DFF49 @CD:	: 1 SN: 140000	
file port options language h	[F2]readings [F3]parameters [F4]adjustment [F5]diag	gnostic	emulator advanced cutoff firmware upd	ate Adap
1,0 10 2,0 0,5 2,5 P[Bar] -3,0	ECU firmware update	logs:		
pres.diff. 1,42	ECU reset (part of update process)			
pres.boost 1,59 pres.abs. 2,42	After the update current ECU settings will be lost!			
t.gas 10 °C t.regulator 09 °C	restore ECU firmware			
ignition min.rpm rpm max.rpm cruise controll: cutoff:				
gas level [V]: level 4,16 EGT				
503 ℃ TPS (0-5 V): 0,0 V				
inj61.est. inj62.est.				
status auto				

This option is used in case there is a new version of firmware released which needs to be uploaded in an already installed ECU. You can perform the update without removing the ECU from the vehicle – through the USB interface. Note: When preforming an update make sure to use original USB interface!

#### IX. Adaptation



Energia Italy PRIME Diesel v7.844 PRM Rev.H:5 Rev.S:29 F.0 Jadd1.0 Jadd2.0 ## SM048 USB1(COM6) *PCID:0xFC6DFF49 @CD: 1 SN: 140000					
file port options language help				and the second	
1,5 [F2]readir	ngs [F3]parameters	[F4]adjustment	t [F5]diagnostic	emulator advanced cutoff fi	rmware update Adap
1,0 2,0	000 1200 1500 2000	2200/2600/2000/	esp kor x float	bar/1700 000 1200 1500 2000	2200 2600 2000
0,5 2,5 0.80 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 b	par/1 700 900 1200 1500 2000 2200	260(300( 0.80 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0
P[Bar] 0.90 0.0	0,0 0,0 0,0 0,0	0,0 0,0 0,0 0	0,80 0,00 0,25 0,25 0,25 0,25 0,25	0,25 0,25 0,90 0,0 0,0 0,0 0,0 0,0	0,0 0,0 0,0
0,0	0,0 0,0 0,0 0,0	0,0 0,0 0,0 0	<b>0,90</b> 0,00 0,25 0,25 0,25 0,25 0,25	0,25 0,25 1,00 0,0 0,0 0,0 0,0 0,0	0,0 0,0 0,0
pres diff 110 0,0	0,0 0,0 0,0 0,0	0,0 0,0 0,0 1	0,00 0,25 0,25 0,25 0,25 0,25	0,25 0,25 1,10 0,0 0,0 0,0 0,0 0,0	0,0 0,0 0,0
pres.un. 1,42 1,20 0,0	0,0 0,0 0,0 0,0	0,0 0,0 0,0 1	1,10 0,00 0,25 0,25 0,25 0,25 0,25	0,25 0,25 1,20 0,0 0,0 0,0 0,0 0,0 0,0	0,0 0,0 0,0
pres.boost 1,59 1,30 0,0			30 0.00 0.25 0.25 0.25 0.25 0.25		0,0 0,0 0,0
pres.abs. 2,42 1.50 0.0	0,0 0,0 0,0 0,0	0,0 0,0 0,0 1	1,40 0,00 0,25 0,25 0,25 0,25 0,25	0,25 0,25 1,50 0,0 0,0 0,0 0,0 0,0 0,0	0,0 0,0 0,0
rpm 2425 1.60 0,0	0,0 0,0 0,0 0,0	0,0 0,0 0,0 1	1,50 0,00 0,22 0,22 0,22 0,22 0,22	0,22 0,22 1,60 0,0 0,0 0,0 0,0 0,0	0,0 0,0 0,0
1,70 0,0	0,0 0,0 0,0 0,0	0,0 0,0 0,0 1	1,60 0,00 0,22 0,22 0,22 0,22 0,22	0,22 0,22 1,70 0,0 0,0 0,0 0,0 0,0	0,0 0,0 0,0
t.gas 10 °C 1.80 0,0	0,0 0,0 0,0 0,0	0,0 0,0 0,0 1	1,70 0,00 0,22 0,22 0,22 0,22 0,22	0,22 0,22 1,80 0,0 0,0 0,0 0,0 0,0	0,0 0,0 0,0
t.regulator 09 °C 1.90 0,0	0,0 0,0 0,0 0,0	0,0 0,0 0,0 1			0,0 0,0 0,0
ignition min.rpm 2 10 0.0	0,0 0,0 0,0 0,0	00 1 2	00 0.00 0.20 0.21 0.22 0.22 0.22 0		0.0
rpm max.rpm 2,20 0,0	0,0 0,0 0,0 0,0	0,0 2	2,10 0,00 0,20 0,21 0,21 0,21 0	2,20 0,0 0,0 0,0 0,0 0,0 0,0	0,0 3
cruise controll: 2,30 0,0	0,0 0,0 0,0 0,0	0,0 0,0 0,0		2,30 0,0 0,0 0,0 0,0 0,0	0,0
DIESEL FUEL	MAP:			<ul> <li>read mapping and show</li> </ul>	w
gas level [V]: bar/rpm 70 0,80 0,0	0 900 1200 0 0,0 0,0	1500 2000 22 0,0 0,0 0,	200 2600 3000	show correction table	
100 0,90 0,0	0,0 0,0	0,0 0,0 0,	0,0 0,0 0,0	erase diesel	
EGT 1,10 0,0	0,0 0,0	0,0 0,0 0,	0,0 0,0 0,0	erase diesel-gas	
503 °C 1,20 0,0	0,0 0,0	0,0 0,0 0,	0,0 0,0 0,0	GPS ACTIVE	-
TPS (0-5 V): 1,40 0,0	0,0 0,0	0,0 0,0 0,	0,0 0,0 0,0		
0,0 V 1,50 0,0	0,0 0,0	0,0 0,0 0,	0,0 0,0 0,0	AFR VOLIAGE / AFR VALUE	
1,70 0,0	0,0 0,0	0,0 0,0 0,	0,0 0,0 0,0		
	0,0 0,0 0 0,0 0,0	0,0 0,0 0,	0,0 0,0 0,0 0,0 0,0 0,0	5,0 ==> 60,0 =	
2,00 0,0	0,0 0,0	0,0 0,0 0,	0,0 0,0 0,0		
status auto 2,10 0,0	0,0 0,0	0,0 0,0 0,	0,0 0,0 0,0		
diesel auto gas 2,30 0,0	0,0 0,0	0,0 0,0 0,	0,0 0,0 0,0		
			4		51
				*	

Option compatible only with additional telemetry ECU (GPS module) and/or with an external AFR probe.

In case of installing an AFR probe and connecting it to the ECU, the AFR values will be automatically gathered by the ECU and displayed on maps. In case of installing a GPS module, the maps will display fuel rates.

- 1. Diesel only map. Represents AFR values / fuel rates during driving on diesel only.
- 2. Coefficients map. Do not modify.
- 3. Diesel-gas map. Represents AFR values / fuel rates during driving on dieselgas.

The maps are helpful to see if gas dosage and emulation have been set properly. The AFR values on map 1 should be similar to corresponding areas on map 3. In case of fuel rates, you should see decrease of fuel consumption on map 3.

- 4. In this field you can copy the maps' values to a text file for offline analysis.
- 5. Settings buttons.
  - Read mapping and show. Displays AFR values gathered by the system during drive.
  - Show correction table. Displays correction table.
  - Erase diesel. Clears data gathered during diesel drive.



- Erase diesel-gas. Clears data gathered during diesel-gas drive.
- GPS Active / AFR active. Select weather GPS module or AFR probe option is active. Use GPS option for rough settings and AFR option for fine settings.
- AFR voltage. Set the range of AFR probe signal.



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Sistema Qualità Certificato ISO 9001:2008