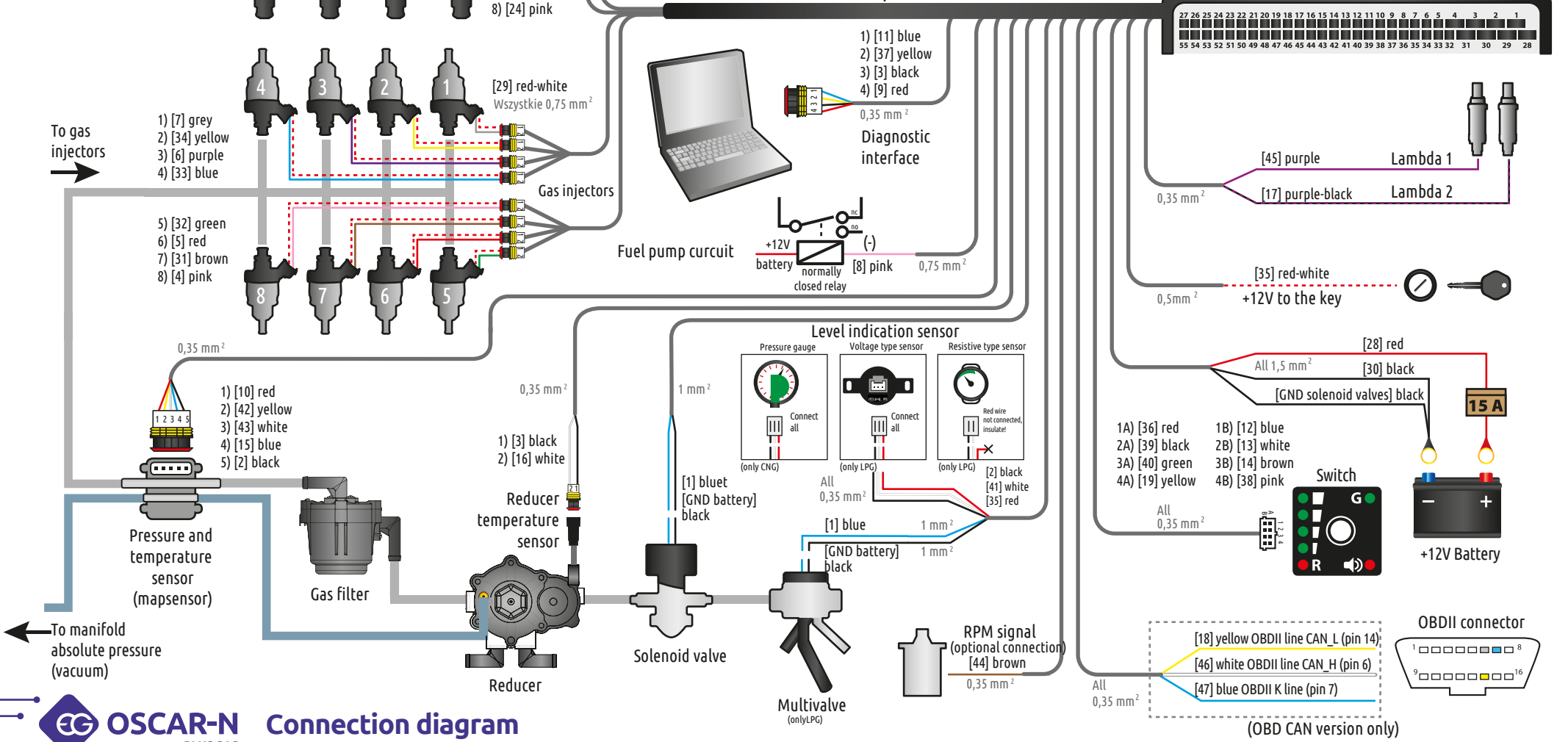


1	+12V to the solenoid valves	15	MAP (vacuum)	29	+12V to gas injectors	43	Absolute gas pressure
2	GND [gas level sensor, pressure and temperature sensor]	16	Reducer temperature	30	GND battery	44	RPM
3	GND [diagnostic interface, temperature and reducer sensor]	17	Lambda 2	31	Gas injector 7	45	Lambda 1
4	Gas Injector 8	18	OBDII line CAN L	32	Gas injector 5	46	OBDII line CAN H
5	Gas injector 6	19	LED 5 (yellow diode)	33	Gas injector 4	47	OBDII line K
6	Gas injector 3	20	Petrol injector 4 (injector side)	34	Gas injector 2	48	Petrol Injector 4 (ECU side)
7	Gas injector 1	21	Petrol injector 3 (injector side)	35	+12V to the ignition key, +12V to the gas level sensor	49	Petrol injector 3 (ECU side)
8	Petrol pump	22	Petrol injector 2 (injector side)	36	+12V to the switch	50	Petrol injector 2 (ECU side)
9	+12V to diagnostic interface	23	Petrol injector 1 (ECU side)	37	Diagnostic interface RX	51	Petrol injector 1 (injector side)
10	+12V to mapsensor	24	Petrol injector 8 (injector side)	38	Buzzer signal	52	Petrol injector 8 (ECU side)
11	Diagnostic interface Tx	25	Petrol injector 7 (injector side)	39	LED 4 (red reserve diode)	53	Petrol injector 7 (ECU side)
12	Switch button	26	Petrol injector 6 (injector side)	40	LED 2	54	Petrol Injector 6 (ECU side)
13	LED 3	27	Petrol injector 5 (injector side)	41	Gas level sensor	55	Petrol Injector 5 (ECU side)
14	LED 1	28	+12V Battery	42	Gas temperature sensor		

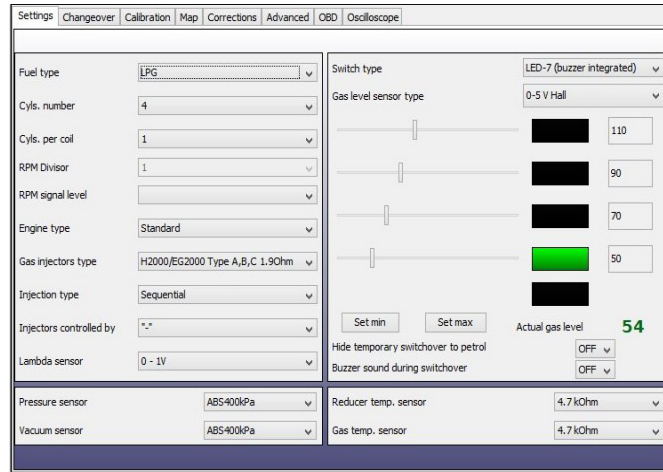
**PLUS / OBD CAN SAS**



# Manual guide "Quick Start"

## 1 - Settings panel

- 1 Set Fuel type on which car is running.
- 2 In Cyls number field please set number of cylinders in the car.
- 3 Set proper value of Cyls per Coil – how many cylinders we have for 1 ignition coil (to get proper value of RPM).
- 4 Set proper value of RPM signal level (usually 12V if signal is taken from ignition coil).
- 5 Set Engine type: STANDARD or TURBO to have proper vacuum range on the map.
- 6 Set proper Gas injectors type.
- 7 For cars with injectors controlled by full group strategy (all injectors controlled by single signal) change the Petrol injection type from Sequential to Full group.
- 8 Only for cars with petrol injectors controlled by positive pulse please change the value Injection controlled by to „+“.
- 9 Set proper Lambda sensor type, if connected.
- 10 In case of using a Pressure/Vacuum sensor, Reducer temperature sensor or/and Gas temperature sensor different from standard ones (ABS400kPa and 4.7kOhm type sensors, which are provided with the ECU set and set as default types) please change sensor type in a proper field.
- 11 Set proper switch type (LED-7 with built-in buzzer or LED-5 with separate buzzer).



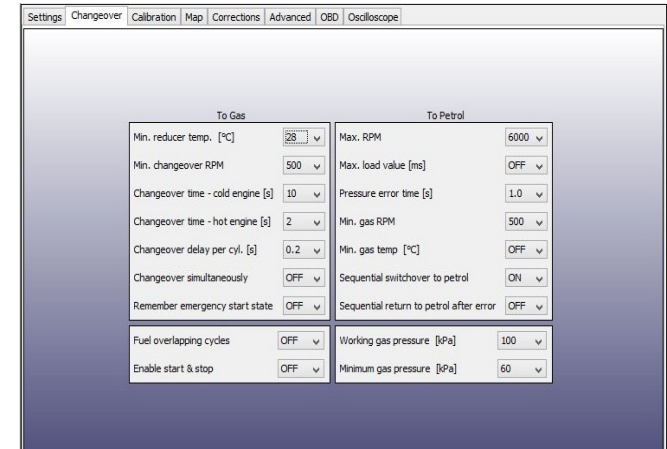
## 2 - Changeover panel

- 1 Set desired parameters for system change over To GAS and To PETROL.

**Note!**

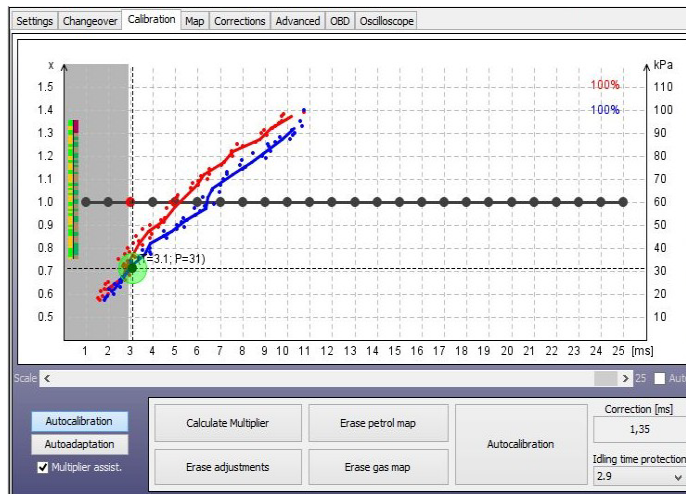
For full-group controlled cars please set Changeover delay per cyl. [s] to "0.0" s. and Changeover simultaneously to "ON" before running auto-calibration.

- 2 The Working and Minimum gas pressure values will be updated automatically after autocalibration. In case of manual change of reducer's pressure these values must be updated every time.



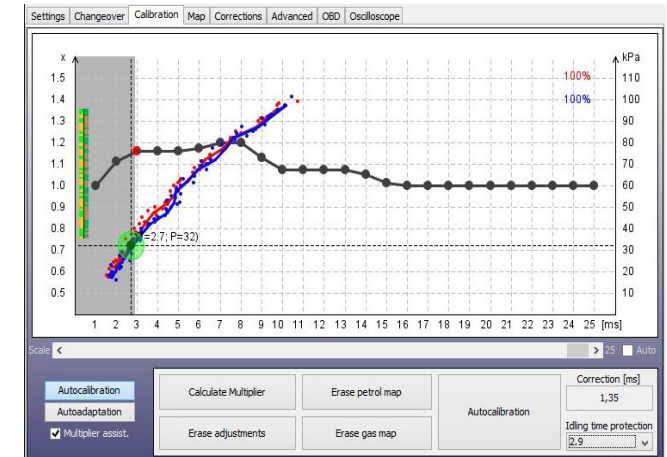
## 3 - Calibration Panel (auto-calibration on idle)

- 1 Wait for the reducer to reach temperature of 50 C degree. The engine should be running on idle revs, on petrol. Air-conditioning must be turned off
- 2 Press Autocalibration button and follow the instructions displayed during autocalibration process.
- 3 If Correction [ms] value after autocalibration will be within safe margins <0.5 ms – 2.5 ms> erase the petrol map and gas map. If not, please change the injectors type (or nozzle size) or change gas pressure value according to programs suggestion and go back to point 3.1.



## 4 - Calibration Panel (self-adaptation during the drive)

- 1 Go for a drive to collect petrol and gas maps in full range of loads (drive until 100% of both maps will be collected).
- 2 If petrol and gas maps are not close enough to each other, press Calculate adjustments button.
- 3 Press Erase gas map button and collect 100% of new gas map.
- 4 If both maps still are not close enough, You can do manual multiplier correction by moving multiplier line points and then go back to point 1.
- 5 If we don't do manual multiplier adjustment correction, we can go back to point 2.



If everything has been installed properly, 4 steps mentioned above should guarantee proper driving on both fuels. In more sophisticated cars there may be necessity of using features located in „Map“, „Corrections“, „Advanced“ and „OBD“ bookmarks. To learn more details refer to the User's Manual located in "docs" folder attached to the software (Press "Help" bookmark to open that folder).