

## IDEA

For Direct Injection

**CREATED  
FOR ENGINES  
WITH DIRECT  
INJECTION OF FUEL**



### **ALEX IDEA is a sequential gas injection in the vapor phase for petrol engines with direct fuel injection.**

Modern solutions used in the controller enable the conversion of popular engines with direct fuel injection - the system can be adapted to most cars equipped with electromagnetic injectors.

IDEA stands out for above average fuel economy used for cooling and lubricating injectors petrol. The specially developed IDEA control algorithm consumes only about 5-10% of gasoline, while other installations of this type available on the market require about 20-30% of fuel to be injected. In addition, the system is able to calculate the exact consumption of petrol in every range of engine operation, which allows you to optimize petrol injection for the individual driver's way of driving.

### **Advantages of IDEA drivers:**

- support for most engines with direct fuel injection from 3 to 6 cylinders
- ready configuration files for popular engines
- integrated OBD service module
- built-in 2 emulators of any voltage signals
- the possibility of adjusting the consumption of petrol in any range of engine operation

### **Example average fuel consumption over a distance of 100km:**

VW Passat 1.4 TSI 8,8L gas + 0,26L petrol/100km*	Audi Q7 3.6 FSI 16,3L gas +0,81L petrol/100km*	Skoda Roomster 1.2 TSI 7,3L gas +0,20L petrol/100km*
Skoda SuperB 1.8 TSI 10,1L gas +0,30L petrol/100km*	VW Caddy 1.2 TSI 8,1L gas +0,25L petrol/100km*	

\* Tests made by vehicle users in road conditions.

The consumption of gas and petrol should be treated as approximate. Total gas and petrol consumption may be smaller or larger depending on the driving style and road conditions.

## SYSTEM FEATURES **IDEA**

Number of cylinders	4/6
Connector- number of pins	56
Case type	ALUMINIUM
Day & night system	✓
Additional RPM corrections	✓
Additional corrections of reducer temperature	✓
Additional corrections of gas temperature	✓
Additional corrections of gas pressure	✓
Additional corrections of gas injectors opening	✓
Oscilloscope to observe the parameters of the installation	✓
Compatibility with standard engines	✓
Compatibility with turbo engines	✓
Compatibility with different types of gas injectors	✓
Compatibility with different types of gas level sensors	✓
The ability to determine the maximum engine load and RPM while while running on gas.	✓
Reminder of control tests of the gas installation.	✓
"Quick start" function	✓
Full anti-circuit and anti-overloading protection	✓
Semiconductor emulation	✓
3D gas and petrol maps	✓
Operating on LPG and CNG fuel	✓
The ability to download the RPM signal from camshaft level sensor.	✓
The ability to download the RPM signal from crankshaft level sensor	✓
The ability to download the RPM signal from injectors impulse	✓
The ability of a permanent switch off of particular gas injectors	✓
The ability of emergency start on gas	✓
Lambda probe service	✓
Records of past errors	✓
Quick switch off of the LPG/CNG installation	✓
RPM decay time setting	✓
The ability to display the history of changes in the controller	✓
Signaling errors and status messages	✓
Petrol secondary injection option	✓
Automatic detection of OBD reports	✓
Controller with OBD	✓
Monitoring of OBD parametres	✓
Operating on reverse OBD correction	✓
Editable ranges of gas injection time( table of injection time in rotation function)	✓
The map of corrections depends on the collector pressure	✓
Signalling running on petrol	✓
Signalling a warm reducer	✓
Erasing selected errors OBD2 / CAN	✓
Universal Fuel pressure Emulator	✓
Separate map for extra petrol injection	✓
Adjustable injection detection level	✓
Filtering the petrol injection signal	✓
Possibility to emulate 2 any voltage signals	✓