

## OPTIMA PICO

**PICO is the newest ecu in the OPTIMA controllers' range. It is designed for 3 and 4-cylinder engines.**

Due to modern technological solutions we managed to create a device a very small size but containing all the implements and functionality necessary to convert the car into LPG / CNG gas supply.

Simple and intuitive program enables a quick vehicle calibration whereas a small number of connections guarantees minimum interference with the original electrical system of the gasoline engine.



### The main advantages of the OPTIMA PICO controller

- small dimensions of the OPTIMA PICO controller simplify its assembly even in tight spaces of modern cars' engine compartments
- works with the Valvetronic, Wankel, naturally aspirated and turbocharged engines
- simple and intuitive program operation
- optional extra petrol injection
- petrol injection loops handling

# COMPARISON OF THE CONTROLLERS

NEW  
2019

	ALEX 32 by AEB	ALEX 48 by AEB	ALEX 48 OBD by AEB	ALEX 56 OBD by AEB	OPTIMA PICO	OPTIMA nano	OPTIMA EXPERT
Number of cylinders	4	4	4	4/5/6/8	3/4	3/4	3/4/5/6/8
Connector- number of pins	32	48	48	56	24	24	56
Case type	COMPOSITE	COMPOSITE	COMPOSITE	ALUMINUM	COMPOSITE	ALUMINUM	ALUMINUM
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	✓	✓	✓	✓	✓	✓	✓
Petrol injection loops handling					✓	✓	✓
Compatibility with VALVETRONIC type engines	✓	✓	✓	✓	✓	✓	✓
Compatibility with Wankla type engines					✓	✓	✓
Compatibility with standard engines	✓	✓	✓	✓	✓	✓	✓
Compatibility with turbo engines	✓	✓	✓	✓	✓	✓	✓
Compatibility with different types of petrol injection control	✓	✓	✓	✓	✓	✓	✓
Compatibility with different types of gas injectors	✓	✓	✓	✓	✓	✓	✓
Compatibility with different types of gas level sensors		✓	✓	✓	✓	✓	✓
Gas injector heating		✓	✓	✓	✓	✓	✓
The ability to determine the maximum engine RPM 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					✓	✓	✓
Fuel overlapping		✓	✓	✓	✓	✓	✓
Operating on external AFR probe					✓	✓	✓
Injector switching strategies during fuel transitions	✓	✓	✓	✓	✓	✓	✓
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			✓	✓		+ ELM	✓
Controller with OBD			✓	✓		+ ELM	✓
Monitoring of OBD parameters						+ ELM	✓
Adaptation based on the ECU correction reading			✓	✓		+ ELM	✓
Operating on reverse OBD correction						+ ELM	✓
Simplification of application view					✓	✓	✓
Editable ranges of gas injection time( table of injection time in rotation function)		✓	✓	✓	✓	✓	✓
Additional correction map depending on MAF						✓	✓
Additional correction map depending on the collector pressure						✓	✓
Leaning on a cold engine					✓	✓	✓
Signalling running on petrol					✓	✓	✓
Signalling a warm reducer					✓	✓	✓
Emulation of lambda probe before the catalytic converter		✓	✓	✓			✓
Emulation of lambda probe after the catalytic converter		✓	✓	✓			✓
Erasing selected errors OBD2 / CAN							✓
Universal Fuel pressure Emulator							✓