ALEX
PROFESSIONAL AUTOGAS INSTALLATIONS

EN

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 contoller

- 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

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COMPARISON OF THE CONTROLLERS ALEX OPTIMA

	OPTIMA PICO	OPTIMA nano	OPTIMA EXPERT
Number of cylinders	3/4	3/4	3/4/5/6/8
Connector- number of pins	24	24	56
Case type	COMPOSITE	ALUMINIUM	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	✔	✔	✔
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 parametres		+ 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			✔

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