

LPG/CNG SOLUTION

OUR MISSION



IDEA



DESIGN



PRODUCTION



TESTING



DELIVERY



SUPPORT

Research & Development Department

EuropeGAS engineers characterize with long-term experience and broad professional knowledge. Those people are the foundation of the company. For extra demanding testing purposes we established fully equipped modern laboratory, and car service with a car chassis dyno. It allows to carry out the assembly and the testing for LPG/CNG converted vehicles.

Quality is our goal

Operating in the automotive industry, we set high standards in terms of both quality and innovation of the solutions we offer. EuropeGAS products undergo more rigorous testing than what is required by certifications, which is why our LPG/CNG systems perform well in extremely challenging conditions.

Leading manufacturer of 0km LPG/CNG kits

We have over 70 representatives of our brand worldwide. We can openly speak of the success resulting from our cooperation with our international and Polish clients, for whom we manufacture and deliver approximately 100,000 LPG/CNG autogas system components annually. We are shaping the future of the automotive industry. As the first Polish company in the autogas sector, we have established a close partnership with a car manufacturer, the Korean brand SsangYong, for whom we supply zero-kilometer LPG/CNG systems under the EuropeGAS brand. In 2023, we began a collaboration with the car importer BAIC to develop and deliver dedicated LPG systems.



EuropeGAS

Since 2005, we have been designing, manufacturing, and delivering reliable automotive gas systems to Polish and international clients. Our main branch is located in Białystok, along with our production plant and research and development laboratory. We design LPG/CNG systems for both gasoline and diesel engines, which include electronic gas injection controllers, reducers, injectors, filters, gas pressure sensors, and other essential installation components.

We are shaping the future

Years of experience in the automotive industry, both in international and Polish markets, allow EuropeGAS to meet the growing needs of users. Economy and ecology are the most frequently mentioned terms in the context of automotive autogas systems. As a manufacturer, we also focus on the innovation, reliability, durability, and safety of our products.

Industry experience

EuropeGAS is a company with many years of experience. Thanks to advanced software, modern components, and innovative solutions, our products are installed in cars around the world. We are proud of our contribution to the development of safe, efficient, and environmentally friendly gas installations that meet the highest European quality standards. The design of our products, their software, and the additional equipment included in the kits allow for a higher level of LPG/CNG installation.

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DEDICATED LPG CONVERSION SETS

With the increasing popularity of cars with direct gasoline injection engines, the Research and Development Department at **EuropeGAS** has intensified its efforts on developing a sequential gas injection controller for these types of vehicles. The next stage of development was the creation from scratch of dedicated, complete LPG/CNG systems for the latest models with direct gasoline injection technology.

The controller's software and the selection of system components have been configured to ensure optimal driving comfort on both fuels while providing trouble-free vehicle operation throughout the warranty period for both the vehicle and the gas system. The EG INJECTO controller protects the engine's valve seats and the gasoline injectors located in the combustion chambers by periodically injecting small amounts of gasoline every few engine cycles. EuropeGAS's dedicated systems feature special mounting brackets, electrical harnesses with sealed connectors, and specially shaped water and gas hoses to minimize interference with the vehicle's construction.

The installation of systems in vehicles is carried out in accordance with instructions developed by the EuropeGAS Technical Department and approved by SsangYong Auto Polska Sp. z o.o. and BAIC Auto Polska Sp. z o.o.

In the era of the expansion of Chinese car brands, EuropeGAS has established cooperation with one of the largest Chinese conglomerates, BAIC. BAIC is a significant shareholder in many automotive brands, including the German automotive giant, Mercedes-Benz. This marks another step in the development of EuropeGAS. The dedicated systems designed for the Beijing 3, Beijing 5, and Beijing 7 models demonstrate that our work and efforts in product development are being recognized in the automotive industry worldwide.



What we offer?

- A complete set of LPG system components tailored to specific vehicle models and engine types:
 - SsangYong: Tivoli (G15GDI and G12DTF), Korando (G15GDI), Torres (G15GDI),
 - BAIC: Beijing 3 (A151R2), Beijing 5 (A156T2H), Beijing 7 (A156T2H).
- Detailed installation instructions showing step-by-step how to install each element of the EuropeGAS system.
- A central unit with dedicated software optimized for emissions and performance.
- Display on the Android Auto screen showing current usage of gasoline and LPG while driving on gas.

CONVERSION SET



- A 5-year or 100,000 km warranty on the entire EuropeGAS system, whichever comes first.
- Mobile technical and commercial support throughout Poland.
- A discreetly placed filling valve under the fuel cap.
- Aluminium case with Automotive Molex connector which meets the 1P65 norms. Built-in ventilation valve prevents from water condensation inside the controller.
- Dedicated mounting brackets for reducer, filter, controller and injection rail allow to install it using the fabric screws and holders.
- Dedicated Plug&Play electric harness. All connectors are ended with plugs, and soldered connections are limited to a minimum. Only the RPM, and ignition wire have to be soldered obligatory.
- Dedicated OBD adapter simplifies the connection of the LPG installation with the vehicle OBD socket without soldering.
- Profiled coolant EPDM hoses in Korando and Tivoli prevent from interfering in vehicle's factory installation.
- Remote technical support available via Internet directly through the diagnostic software.
- Gasoline/Gas switch with full fuel level indicator which perfectly fits in with car interior and allows to change the light colour.

DEDICATED LPG CONVERSION SETS

SSANGYONG TIVOLI

ENGINE 1.2 T-GDI 128 HP, 1.5 T-GDI 163 HP



SSANGYONG KORANDO

ENGINE 1.5 T-GDI 163 HP



ULTIMATE EQUIPMENT

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DEDICATED LPG CONVERSION SETS

SSANGYONG TORRES

ENGINE 1.5 T-GDI 163 HP



BAIC BEIJING 3

ENGINE 1.5 T 136 HP



ULTIMATE EQUIPMENT

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DEDICATED LPG CONVERSION SETS

BAIC BEIJING 5

ENIGNE 1.5 T 177 HP



BAIC BEIJING 7

ENIGNE 1.5 T 177 HP



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EG SPINNER

EG SPINNER is an innovative vapor phase filter featuring a universal replaceable filter cartridge. The DSF - Double Spin Force system provides even greater effectiveness in separating oily fractions. The rotating ports allow the filter to be mounted in any position within the engine compartment.

EG SWITCH RGB

The fuel type switch located in the vehicle cabin allows for changing the type of fuel. It also offers the option to programmatically change the color of the LED indicators that show the estimated gas level in the tank.

EG INJECTO 90.6 DUO

EG INJECTO 90.6 DUO is a sequential gas injection system designed for vehicles with 6-cylinder engines featuring a dual fuel injection system, meaning it has both multi-point (MPI) and direct (DI) gasoline injection.



EG PREMIO NEXT

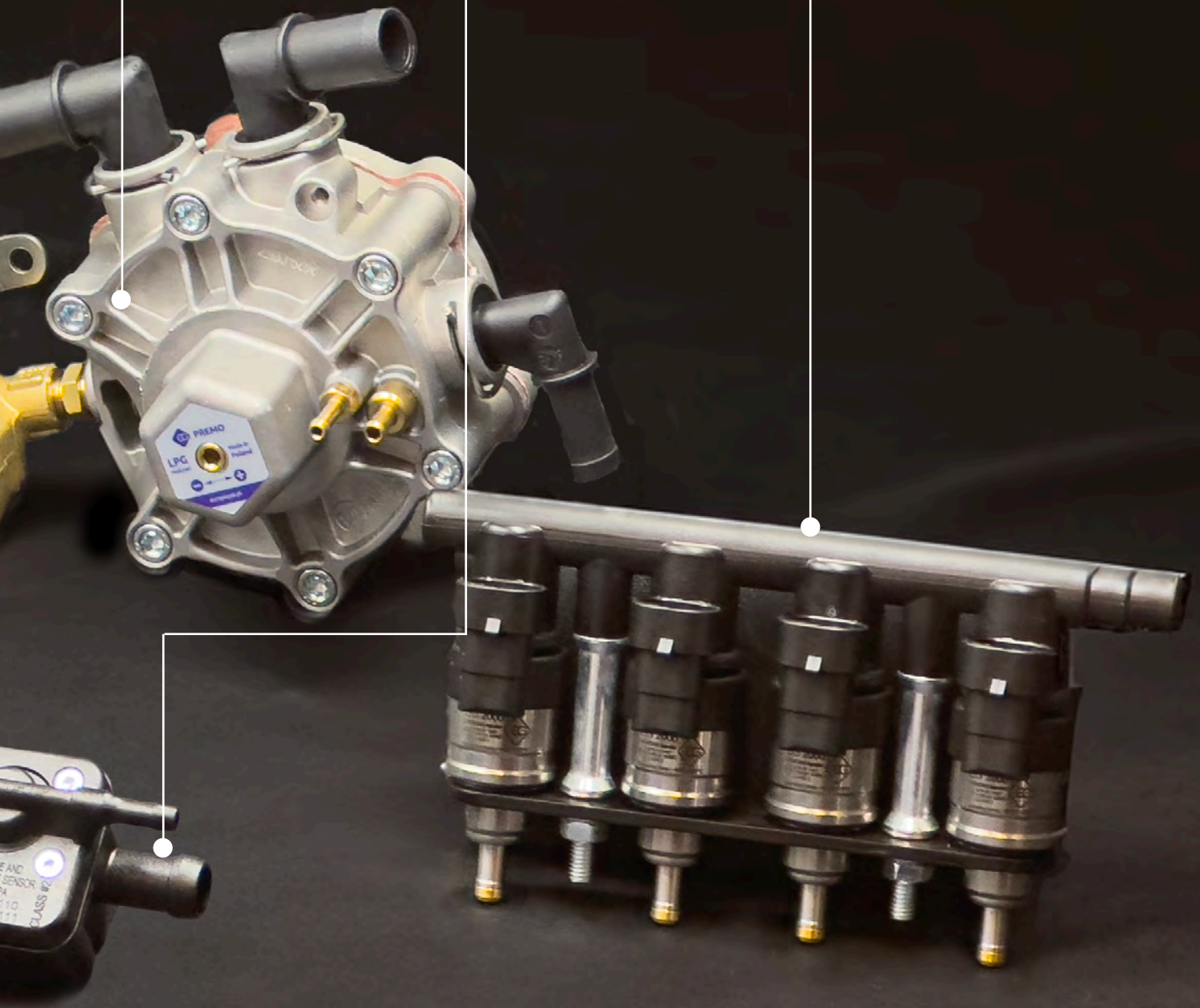
The EG PREMIO NEXT reducer is a single-stage LPG reducer, separated from the gas solenoid valve assembly, designed to power engines up to 150 HP.

EG ABS400KPA

The gas pressure and temperature sensor, along with the engine vacuum sensor, features compact dimensions and a 5-pin AMP connector. It provides IP54-rated protection, ensuring long-lasting and trouble-free sensor performance.

EG2000

EG2000 injectors are high-quality piston-type injectors. They ensure high precision and consistency in gas dosing for each individual cycle. Replaceable calibration nozzles allow for adjusting the LPG/CNG flow to match the engine's nominal power.



COMPLETE EUROPEGAS KIT

INNOVATIVE

INDIRECT GASOLINE INJECTION



EUROPEGAS CONTROLLERS COMPARISON

**EG BASICO
24.4**

**EG BASICO
32.6**

**EG AVANCE
32.4/48.4/48.6/48.8**

**EG SUPERIOR 48.4
STD/3D**

External dimensions (mm)	110x91x32	120x99x36	120x99x36 / 124x150x38	124x150x38
Connector (PIN)	24	32	32 / 48	48
Housing	Composite	Composite	Composite /Aluminium	Aluminium
Number of cylinders supported	4	6	4/6/8	4
Number of lambda sensors possible to connect	0	2	1/2	2
Extra gasoline injection under engine load	✓	✓	✓	✓
Communication with vehicle's OBD by connecting the harness wires of the gas Controller	-	-	✓	✓
Communication with vehicle's OBD using the ELM327 external OBD interface	✓	✓	✓	✓
Automatic rapid adaptation of the multiplier during driving (built-in injector characteristics)	✓	✓	✓	✓
Built-in Timing Advance Processor (1 inductive signal with 2 digital signal or 3 digital signals at the same time)	-	-	-	✓
Adjustment of RGB switch's backlight colours and the tone of the buzzer	✓	✓	✓	✓
Automated advancing of gas injection sequence order	✓	✓	✓	✓
Automated system calibration by pressing and holding the switch button	✓	✓	✓	✓
Automated calibration of gas level LED indication by pressing and holding the switch button	✓	✓	✓	✓
Preview and change of the settings protected by password	✓	✓	✓	✓



ULTIMATE EQUIPMENT

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EUROPEGAS CONTROLLERS COMPARISON



**EG BASICO
24.4**

**EG BASICO
32.6**

**EG AVANCE
32.4/48.4/48.6/48.8**

**EG SUPERIOR 48.4
STD/3D**

No need to connect an RPM wire	✓	✓	✓	✓
Built-in remote assistance assistant	✓	✓	✓	✓
No need to connect the „ignition” wire	✓	✓	-	-
Heating of gas injectors before switching to gas	✓	✓	✓	✓
Valvetronic System Support	-	-	✓	✓
Start&Stop System Support	-	-	✓	✓
High precision oscilloscope for petrol and gas injection signals	-	-	✓	✓
Possibility to block gas ECU after a certain period of time	-	-	✓	✓
Control of the temporary fuel pump shutdown	-	-	✓	✓
Programmable change of the injectors order	✓	✓	✓	✓
Dropping gasoline pressure value through petrol injectors	✓	✓	✓	✓
Testing of system key elements	✓	✓	✓	✓
Automated forced start on gas	✓	✓	✓	✓
Overlapping of fuel cycles during switchover	✓	✓	✓	✓
Assistant of proper nozzles size selection	✓	✓	✓	✓
Support of “Cold VAG” function	-	-	✓*	-
Manual testing of gasoline petrol injector emulators	✓	✓	✓	✓
Freeze frames function for gas controller errors	✓	✓	✓	✓
Automated OBD error clearing	-	-	✓	✓
Engine load test during the drive (road dyno function, measuring power and torque)	-	-	✓	✓

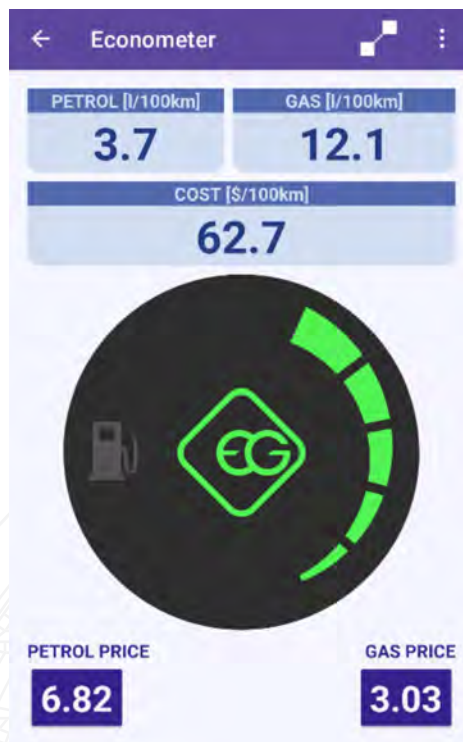
* Applies to the EG AVANCE 48.4 Dual Jet controller



The EG INJECTO LERTA app allows for monitoring fuel consumption in vehicles equipped with the EG Injecto LPG/CNG system. Consumption data is displayed on Android smartphones or Android Auto vehicle displays.

For the app to function correctly, it requires the EG CONECTO interface, version V3 or higher. This interface enables seamless connection between the gas system and the EG INJECTO Lerta software installed on an Android smartphone. Through this integration, users can continuously monitor gas consumption and optimize their driving style, contributing to savings and environmentally friendly vehicle use.

The fully integrated EG INJECTO platform not only provides access to real-time fuel consumption data but also allows users to view current gas system parameters and read OBD vehicle parameters, without the need for additional diagnostic devices.



SPECIFICATION

- Displaying fuel consumption in liters per 100 km or cubic meters per 100 km.
- Calculation of fuel consumption and costs for the traveled route.
- Conversion of fuel consumption costs to the user's currency amount.
- Displaying key parameters of the EG INJECTO gas system and main OBD vehicle parameters.
- Capability to read and clear OBD errors of the gasoline controller.



INJECTO 48.4

DIRECT GASOLINE INJECTION

EG INJECTO 48 is a sequential LPG/CNG gas injection controller designed for vehicles with direct gasoline injection.

The innovative auto-calibration and mapping algorithm allows for quick and easy system adaptation to a wide range of vehicles.

The built-in oscilloscope enables rapid identification of input signals and verification of connection accuracy.

The aluminum housing ensures durability and resistance to extreme weather conditions.

Combined with a 48-pin Molex automotive connector and a ventilation valve that prevents water vapor condensation inside the controller, it guarantees both sealing and reliable performance.



SPECIFICATION

- Aluminum, hermetically sealed IP65 housing.
- 48-pin Molex automotive connector.
- Built-in ventilation valve.
- Operating temperature: -40 ... +120°C.
- Support for vehicles with 3 to 8 cylinders (6- and 8-cylinder vehicles require the use of two controllers).
- Built-in high fuel pressure (HPS) and low fuel pressure (LPS) emulators.
- Automated, simplified system tuning using OBD readings.
- Continuous recording and monitoring of the percentage of gasoline used while driving on gas.
- Automated clearing of OBD errors for the gasoline controller.
- Compatibility with a parameter logger connected to the diagnostic connector of the system.
- Support for vehicles with START/STOP function.

INJECTO 90.4 / 90.6 DUO DIRECT GASOLINE INJECTION

EG INJECTO 90.6 DUO is an innovative sequential gas injection system designed for vehicles with 6-cylinder engines that feature a dual fuel injection system, including both multi-point (MPI) and direct (DI) gasoline injection. Gas is delivered to the intake manifold using just 6 gas injectors (each gas injector handles one cylinder).

The advanced auto-calibration and mapping algorithm allows for quick and intuitive system tuning, similar to the calibration of the standard EG INJECTO 48 system, which only supports direct injection. The built-in oscilloscope in the controller enables rapid identification of input signals and verification of connection accuracy.

The EG INJECTO 90.6 DUO controller includes advanced technology emulators for both direct and indirect injection systems. This allows for simultaneous emulation of the gasoline injector signals for both DI and MPI when the engine is running on gas, resulting in very low gasoline consumption.

The system ensures smooth transitions between injection strategies, maintaining vehicle performance close to that of gasoline operation.



SPECIFICATION

- Support for vehicles with 4- and 6-cylinder engines featuring dual gasoline injection (handling up to 6 electromagnetic DI gasoline injectors and up to 6 MPI gasoline injectors).
- Automated, simplified system tuning using OBD readings.
- Continuous recording and monitoring of the percentage of gasoline used while driving on gas.
- Capability for automated clearing of OBD errors for the gasoline controller.
- Dedicated app for visualizing the consumption of both fuels while driving on LPG/CNG, compatible with vehicles equipped with Android Auto (for Android smartphones only).
- Compatibility with a parameter logger connected to the system's diagnostic connector.
- Built-in high fuel pressure (HPS) and low fuel pressure (LPS) emulators.
- Operating temperature: -40 ... +120°C.
- UN ECE homologations for compliance with LPG and CNG.

STABLE



EUROPEGAS INJECTORS COMPARISON

EG PREMIO NEXT

EG SUPREMO

EG SUPREMO 400HP

Supported power range	to 150 HP	to 270 HP	to 400 HP
Regulator integrated with an electric valve	-	✓	✓
Filter chamber heating	-	✓	✓
Universal filter cartridge	✓	✓	✓
Operating pressure range	0,9-1,3 bar	0,9-1,3 bar	0,9-1,3 bar
Gas inlet	Ø6 thread M10x1	Ø8 thread M12x1	Ø8 thread M12x1
Gas outlet port	Ø12 mm	Ø16 mm	Ø16 mm
Intake manifold pressure port	Ø4 mm	Ø4 mm	Ø4 mm
Heater fluid ports	Ø16 mm	Ø16 mm	Ø16 mm
Rotary connection ports	✓	✓	✓
Included 4.7kΩ NTC temperature sensor	thread M5	thread M5	thread M5



ULTIMATE EQUIPMENT

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EFFICIENT



EG2000



EG RAILGAS

EUROPEGAS INJECTORS COMPARISON

Maximum static flow rate, 3mm nozzle (at 1.2 bar)	130 l / min	100 l / min
Maximum working pressure	4,5 bar	4,5 bar
Operating voltage range	12V	12V
Working temperature	- 40 ÷ 120 °C	- 40 ÷ 120 °C
Connectors adapted to the plug	AMP Superseal 282080 - 1	AMP Superseal 282080 - 1
Opening time	1,9 ms	2,7 ms
Closing time	1,2 ms	2,4 ms
Coil resistance	1,9 Ω	2,0 Ω
Gas outlet	thread M5x0,5, callibration nozzles Ø5	thread M8x1, callibration nozzles Ø5
Effective expenditure per cylinder	12 - 50 HP	10 - 32 HP
Version	or single assembly and on 3 cyl. or 4 cyl. fuel rail	rail 3 cyl. or 4 cyl.
Callibration nozzles	1,5 mm for drilling, and pre-calibrated 1,9mm (III), 2,2 (II) i 2,5mm (I)	1,5 mm for drilling



ULTIMATE EQUIPMENT

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ACCESSORIES LPG/GNC

EG DYNAMIC STD / 3D

Timing Advance Processor.

- Advances the moment of ignition in engines which run on LPG/CNG fuel in order to optimize the engine power and improve the dynamics of its work.
- It is scanning, learning and supporting crankshaft and camshaft signals shifting for various engines.
- Dynamic ignition angle advancing depending on actual value of engine speed, TPS throttle position and MAP.
- Support single inductive sensor and up to two digital sensors (Standard version) or three digital sensors (3D version).



ABS400KPA

- The ABS400KPA sensor is designed for all LPG and CNG systems produced by EuropeGAS.
- It measures gas pressure and temperature in the gas system, as well as absolute pressure in the intake manifold.
- The sensor ensures high measurement accuracy regardless of gas flow, temperature, and pressure.
- The mapsensor uses modern, high-quality, precision pressure sensors and other electronic components from renowned manufacturers.



EG FUEL LEVEL RESETTER

The fuel level indication emulator EG FLR v2.6 is designed for a wide range of cars with a resistive gasoline level sensor with one signal wire and a gas supply system, in which the petrol level indication drops when driving on gas and does not reset automatically after restarting engine.



EG CARBURETOR

Changeover switch intended for cars with carburetor engines or with electronic injection, fueled with gaseous fuel (LPG or CNG). It has a full indication of the gas level and the possibility of automatic switching between fuels.



EG INTERFEJS USB 2.1

Two diagnostic connectors ensure compatibility with all systems manufactured by EuropeGas. The optically isolated interface with an FTDI chip is 100% resistant to interference from the car's ignition system and provides the highest level of surge protection. A 3.5-meter dedicated cable, resistant to bending and compression.



EG INTERFACE OBD

- Gives ability to preview the values of the STFT and LTFT mixture correctors and other parameters, and to erase OBD errors.
- Supports ELM327/VGate interface in USB and Wifi version.
- Supports all vehicles with OBDII protocol (manufactured after year 2000).
- Compatible with EG BASICO, EG AVANCE and EG SUPERIOR controllers.



EG CONECTO

- WiFi diagnostic interface designed for wireless communication with EuropeGAS controllers.
- Compatible with dedicated diagnostic software operating on Windows (EG Configuration Center, EG Injecto) and Android (EG MOVI, EG INJECTO LERTA).
- No need to configure the WiFi module before establishing a connection.
- Compliant with the IEEE 802.11 b/g/n standard.



EG HLS

Contactless gas level sensor with linear output voltage (Hall gas level sensor).

- No mechanical components.
- Precise gas level indication.
- Very low power consumption (10 - 12 mA).
- Voltage value: 0V - empty tank, 5V - full tank.



EG SPINNER

EG Spinner is an innovative vapour phase filter using Double Spin Force system and with an interchangeable universal filter insert.

- Filter cartridge with glass fiber and acrylic resins.
- Filtration area: 0,0227 m².
- Maximum operating pressure: 4.5 bar.
- Operating temperature from - 40°C to +120°C.
- Diameter of the connectors: ø12 or ø16 mm.
- Dimensions in mm: 100 x 80 x 80.



GASEOUS PHASE FILTER LPG/CNG

- Housing material: aluminium.
- Filtration efficiency: 99% particles from 2 µm.
- Filtration material: blotting paper: 843 VH 134.
- Filtration area: 0,039 m².
- Available in all varieties of inlet and outlet diameters.



EG FTH

- High-pressure flexible hoses are an excellent alternative for use in automotive LPG installations instead of rigid copper pipes.
- Fittings available in two versions: D6 and D8: 180°, 135°, 90°.
- 2 types of FTH hose:
 - D6 (internal diameter 5.0 mm / external diameter 9.6 mm).
 - D8 (internal diameter 6.5 mm / external diameter 12.2 mm).



EG TESTER

A professional agent for testing the tightness of gas installations.

- Quick and easy application.
- Operation in any position.
- Does not cause corrosion.
- Operating temperature range: -8°C – 35°C.
- Capacity: 400 ml.



EG DETECTOR

Electronic leak detector of the gas installation.

- Sensitivity potentiometer allowing for fast and accurate location of leaks.
- Audible and visual indication of leak detection.
- Quick response time, below two seconds for less than 40% LEL.
- Flexible probe with a length of 42 cm.



EG ADAPTER OBDII

The OBD adapter facilitates the connection of the gas controller with OBD communication protocols using pin 7 (ISO 9141, KWP 2000 SLOW, KWP 2000 FAST) and pins 6 and 14 (CAN 250k 11b, CAN 250k 29b, CAN 500k 29b, CAN 500k 11b).



EG DIVIDE

The distribution manifold is an element that facilitates the delivery of LPG/CNG to individual EG2000 injectors designed for single installation, with inlet ports of 6 mm diameter, mounted directly near the nozzles in the intake manifold.

- Versions available: 2, 3, 4 (cylinders).
- Operating temperature: from -40°C to +120°C.
- Inlet port: Ø12mm.
- Outlet nozzles: Ø6mm.



TECHNICAL SUPPORT



EuropeGAS, as a manufacturer, gives the customer not only product, but also knowledge. We put our greatest efforts to be certain that the workshops properly install and service the installation. We conduct software and manual trainings for EG installers. We provide remote technical support regarding callibration and LPG/CNG kit diagnosis, using EG Configuration Centre with integrated remote desktop software.



Each EuropeGAS product is designed for the users, that is why our main factors are easiness and intuitiveness of service. Through direct meetings with our clients we are able to familiarize with product feedback, and share the experiences regarding everyday usage of our equipment.



EG Injecto 48 software training.



ULTIMATE EQUIPMENT

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TRAININGS



Technical Support Department together with our distributors organize cyclical trainings all over the World. We consider this as an investment, because properly trained installer is the best showcase of the company.

We organize cyclical assembly and service trainings of authorized workshops.

LPG INSTALLATION

Advantages of Installing a Dedicated System for SsangYong and BAIC



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