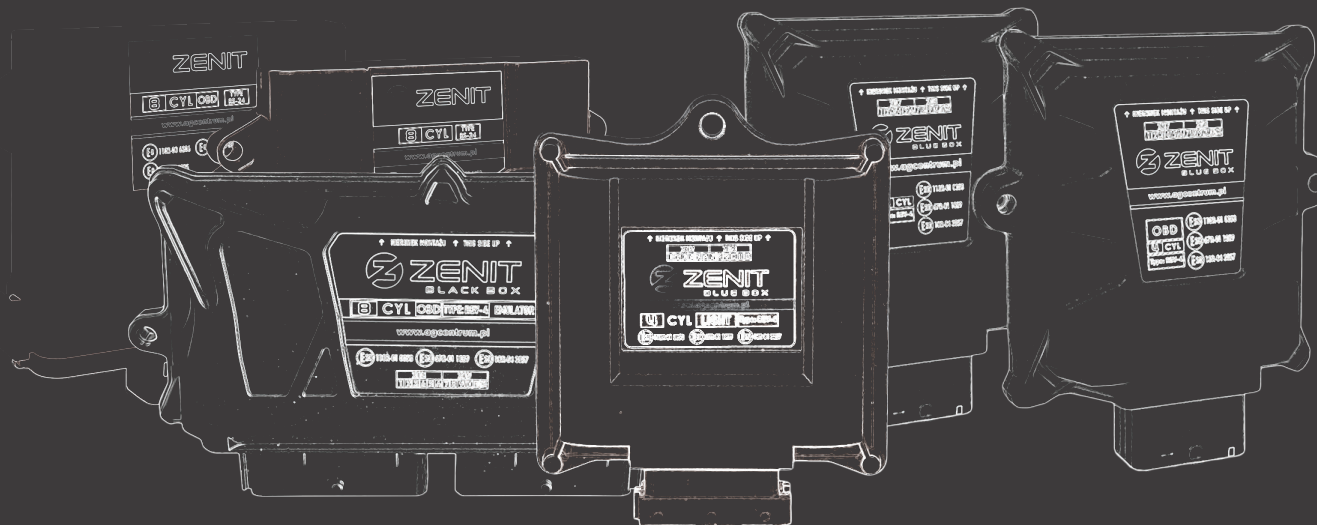




ECU COMPARISON



FUNCTIONALITY AND POSSIBILITIES

	ZENIT BLACK BOX	ZENIT BLACK BOX OBD	ZENIT BLACK BOX OBD EMULATOR	ZENIT BLUE BOX LIGHT	ZENIT BLUE BOX	ZENIT BLUE BOX OBD	ZENIT PRO	ZENIT PRO OBD
The maximum number of supported cylinders	4,6,8	4,6,8	4,6,8	4	4	4	4,6,8	4,6,8
Efficient processor with automotive certification	✓	✓	✓	✓	✓	✓	✓	✓
Emulator based on semiconductors	✓	✓	✓	✓	✓	✓	✓	✓
Support for engines with half-sequential injection and full group	✓	✓	✓	✓	✓	✓	✓	✓
Built-in OBD module	—	✓	✓	—	—	✓	—	✓

FUNCTIONALITY AND POSSIBILITIES

	ZENIT BLACK BOX	ZENIT BLACK BOX OBD	ZENIT BLACK BOX OBD EMULATOR	ZENIT BLUE BOX LIGHT	ZENIT BLUE BOX	ZENIT BLUE BOX OBD	ZENIT PRO	ZENIT PRO OBD
Built-in fuel level emulator	—	—	✓	—	—	—	—	—
Possibility to change cylinder assignment, sequence acceleration	✓	✓	✓	—	—	—	✓	✓
Control of external devices	✓	✓	✓	✓	✓	✓	✓	✓
Circuits of solenoid valves	2	2	2	1	2	2	2	2
Signal inputs of lambda sensor	1	1	1	—	1	1	2	2

FUNCTIONALITY AND POSSIBILITIES

	ZENIT BLACK BOX	ZENIT BLACK BOX OBD	ZENIT BLACK BOX OBD EMULATOR	ZENIT BLUE BOX LIGHT	ZENIT BLUE BOX	ZENIT BLUE BOX OBD	ZENIT PRO	ZENIT PRO OBD
Pressure and gas temperature sensor integrated in the flow	✓	✓	✓	✓	✓	✓	✓	✓
Cooperation with the USB interface	✓	✓	✓	✓	✓	✓	✓	✓
Cooperation with the RS232 interface	✓	✓	✓	✓	✓	✓	—	—
Cooperation with the Bluetooth interface	✓	✓	✓	✓	✓	✓	✓	✓
Protection against damage in the case of updating disruption	✓	✓	✓	✓	✓	✓	✓	✓

FUNCTIONALITY AND POSSIBILITIES

	ZENIT BLACK BOX	ZENIT BLACK BOX OBD	ZENIT BLACK BOX OBD EMULATOR	ZENIT BLUE BOX LIGHT	ZENIT BLUE BOX	ZENIT BLUE BOX OBD	ZENIT PRO	ZENIT PRO OBD
LPG and CNG gas support	✓	✓	✓	✓	✓	✓	✓	✓
Automatic model fitting	✓	✓	✓	✓	✓	✓	✓	✓
Constant switching of selected cylinders to petrol	✓	✓	✓	✓	✓	✓	—	—
Correction of the mixture after motor rotation	✓	✓	✓	✓	✓	✓	✓	✓
Compensation at the reducer and gas temperature	✓	✓	✓	✓	✓	✓	✓	✓

FUNCTIONALITY AND POSSIBILITIES

	ZENIT BLACK BOX	ZENIT BLACK BOX OBD	ZENIT BLACK BOX OBD EMULATOR	ZENIT BLUE BOX LIGHT	ZENIT BLUE BOX	ZENIT BLUE BOX OBD	ZENIT PRO	ZENIT PRO OBD
Compensation at gas pressure	✓	✓	✓	✓	✓	✓	✓	✓
Compensation at acceleration	✓	✓	✓	✓	✓	✓	✓	✓
Compensation at supply voltage	✓	✓	✓	✓	✓	✓	✓	✓
Autocalibration	✓	✓	✓	✓	✓	✓	✓	✓
Self-adaptation after petrol injection times	✓	✓	✓	—	—	✓	✓	✓

FUNCTIONALITY AND POSSIBILITIES

	ZENIT BLACK BOX	ZENIT BLACK BOX OBD	ZENIT BLACK BOX OBD EMULATOR	ZENIT BLUE BOX LIGHT	ZENIT BLUE BOX	ZENIT BLUE BOX OBD	ZENIT PRO	ZENIT PRO OBD
Self-adaptation after OBD	—	✓	✓	—	—	✓	—	✓
Motor rotation reading without the necessity of connecting the RPM cable	✓	✓	✓	✓	✓	✓	✓	✓
Adjustable sensitivity of the speed signal	✓	✓	✓	✓	✓	✓	✓	✓
Reading of the camshaft sensor rotation	✓	✓	✓	✓	✓	✓	—	—
Support for turbocharged engines	✓	✓	✓	✓	✓	✓	✓	✓

FUNCTIONALITY AND POSSIBILITIES

	ZENIT BLACK BOX	ZENIT BLACK BOX OBD	ZENIT BLACK BOX OBD EMULATOR	ZENIT BLUE BOX LIGHT	ZENIT BLUE BOX	ZENIT BLUE BOX OBD	ZENIT PRO	ZENIT PRO OBD
Automatic heating up of the injectors	✓	✓	✓	✓	✓	✓	✓	✓
Secondary injection filter	✓	✓	✓	✓	✓	✓	✓	✓
Acceleration/deceleration switching	✓	✓	✓	✓	✓	✓	✓	✓
Sequential switching to gas/ return to gasoline	✓	✓	✓	✓	✓	✓	✓	✓
Overlapping of fuels during switching	✓	✓	✓	✓	✓	✓	✓	✓

FUNCTIONALITY AND POSSIBILITIES

	ZENIT BLACK BOX	ZENIT BLACK BOX OBD	ZENIT BLACK BOX OBD EMULATOR	ZENIT BLUE BOX LIGHT	ZENIT BLUE BOX	ZENIT BLUE BOX OBD	ZENIT PRO	ZENIT PRO OBD
Quick start on gas	✓	✓	✓	✓	✓	✓	—	—
Control of the switch brightness	✓	✓	✓	✓	✓	✓	—	—
Gas pressure control	✓	✓	✓	✓	✓	✓	✓	✓
Support for Valvetronic, Valvematic, Multiair, Start&Stop technology	✓	✓	✓	✓	✓	✓	✓	✓
Support for full opening of the petrol injectors	✓	✓	✓	✓	✓	✓	✓	✓

FUNCTIONALITY AND POSSIBILITIES

	ZENIT BLACK BOX	ZENIT BLACK BOX OBD	ZENIT BLACK BOX OBD EMULATOR	ZENIT BLUE BOX LIGHT	ZENIT BLUE BOX	ZENIT BLUE BOX OBD	ZENIT PRO	ZENIT PRO OBD
Adjusting the gas mixture during full opening	✓	✓	✓	✓	✓	✓	—	—
Switching to petrol at specified motor rotations / injection times / load	✓	✓	✓	✓	✓	✓	✓	✓
Smooth secondary petrol injections during gas work	✓	✓	✓	✓	✓	✓	✓	✓
Mazda depletion	✓	✓	✓	✓	✓	✓	✓	✓
Cold VAG	✓	✓	✓	✓	✓	✓	✓	✓

FUNCTIONALITY AND POSSIBILITIES

	ZENIT BLACK BOX	ZENIT BLACK BOX OBD	ZENIT BLACK BOX OBD EMULATOR	ZENIT BLUE BOX LIGHT	ZENIT BLUE BOX	ZENIT BLUE BOX OBD	ZENIT PRO	ZENIT PRO OBD
Automatic protocol detection with OBD connection	—	✓	✓	—	—	✓	—	✓
Support for reverse corrections	—	✓	✓	—	—	✓	—	✓
Preview of OBD parameters	—	✓	✓	—	—	✓	—	✓
Automatic erasing of errors in the engine control unit	—	✓	✓	—	—	✓	—	✓
Erasing of the selected codes of errors	—	✓	✓	—	—	✓	—	✓

FUNCTIONALITY AND POSSIBILITIES

	ZENIT BLACK BOX	ZENIT BLACK BOX OBD	ZENIT BLACK BOX OBD EMULATOR	ZENIT BLUE BOX LIGHT	ZENIT BLUE BOX	ZENIT BLUE BOX OBD	ZENIT PRO	ZENIT PRO OBD
Recorder of the work parameters of the installation	✓	✓	✓	✓	✓	✓	✓	✓
Advanced diagnostics	✓	✓	✓	✓	✓	✓	✓	✓
Frozen frame	✓	✓	✓	✓	✓	✓	—	—
Solenoid valve test	✓	✓	✓	—	✓	✓	✓	✓
Buzzer test	✓	✓	✓	✓	✓	✓	—	—

FUNCTIONALITY AND POSSIBILITIES

	ZENIT BLACK BOX	ZENIT BLACK BOX OBD	ZENIT BLACK BOX OBD EMULATOR	ZENIT BLUE BOX LIGHT	ZENIT BLUE BOX	ZENIT BLUE BOX OBD	ZENIT PRO	ZENIT PRO OBD
Test of gas injectors performance	✓	✓	✓	—	✓	✓	—	—
Test of correct connection of petrol injectors	✓	✓	✓	—	—	—	—	—
Work time counters	✓	✓	✓	✓	✓	✓	✓	✓
Service reminder	✓	✓	✓	✓	✓	✓	✓	✓
Credit function	✓	✓	✓	✓	✓	✓	—	—

FUNCTIONALITY AND POSSIBILITIES

	ZENIT BLACK BOX	ZENIT BLACK BOX OBD	ZENIT BLACK BOX OBD EMULATOR	ZENIT BLUE BOX LIGHT	ZENIT BLUE BOX	ZENIT BLUE BOX OBD	ZENIT PRO	ZENIT PRO OBD
Password lock	✓	✓	✓	✓	✓	✓	✓	✓
Call registration	✓	✓	✓	✓	✓	✓	✓	✓
Automatic software update	✓	✓	✓	✓	✓	✓	—	—



AG Centrum

Chorzowska 11A
26-600 Radom
Mazowieckie
Polska



+48 (48) 322 27 20
+48 (48) 322 27 32



agc@agcentrum.pl
www.agcentrum.pl



Technical Support

+48 800 703 039
+48 606 145 996



techniczny@agcentrum.pl