

# KIT OMEGAS DIRECT (8 cyl.)



## FEATURES

The LANDIRENZO OMEGAS DIRECT system represents a new evolution of the conventional sequential system, designed for conversion of direct injection engines to Natural Gas.

It helps to reduce emissions, ensuring compliance with standards up to Euro 6. The Landirengo Omegas Direct system permits accurate fuel metering, in particular when paired with its GI25 rail injectors (not included in the basic kit). It also ensures high performance while preserving the engine over time through special calibration - executed and validated by Landirengo - based on the model and engine ID.

LANDIRENZO OMEGAS DIRECT, for vehicles with 5- to 8-cylinder engines, interacts with the petrol system and offers OBDII connectivity via the K and CAN protocols for advanced gas system diagnostics. The system consists of a 60+48 pin dual ECU connector, with integrated injector cut-off wiring harnesses, a regulator with a built-in pressure gauge for aspirated and turbo engines, a low-pressure filter, and every accessory to ensure optimal component mounting. For the conversion of specific vehicles, see the feasibility list published by Landirengo.

## COMPOSITION

### KIT

- PRESSURE REGULATOR
- CNG PRESSURE SENSOR
- ECU
- RAIL INJECTORS
- SQUARE SWITCH
- MAP SENSOR
- UNCOUPLE WIRING HARNESS
- GAS FILTER
- HOSES & PIPES
- T CONNECTORS
- CLAMPS
- WATER SENSOR
- BRACKETS

### MINIKIT

- PRESSURE REGULATOR
- CNG PRESSURE SENSOR
- ECU
- RAIL INJECTORS
- SQUARE SWITCH
- MAP SENSOR
- UNCOUPLE WIRING HARNESS
- GAS FILTER
- WATER SENSOR

## MAINTENANCE

- Gas filter replacement (low pressure circuit) and controls (20.000 km).
- Gas injectors overhaul (60.000 km).
- Pressure regulator maintenance service (80.000 km).


## HOMOLOGATIONS


DGM (Italy) 59612 CNG Injection systems Euro 5 - 6 for power (kW / cylinder) from 12kW to 26kW / 27kW to 45kW


DGM (Italy) 59673 CNG aspirated systems Euro 3 - 4 for power (kW / cylinder) from 1190cc to 1990cc (only GI25 injectors)


DGM (Italy) 59652 CNG turbo engines systems Euro 3 - 4 for power (kW / cylinder) from 890cc a 2480cc (only GI25 injectors)

## COMPONENTS

<b>PRESSURE REGULATOR</b>	<b>NG2</b>	
	NOMINAL OPERATING	40 Kg/h
	OPERATING PRESSURE	2 bar
	PRESSURE SETTING SAFETY VALVE	18 bar
	WORKING TEMPERATURE	-40°C ÷ 120°C
	ELECTRIC FEATURES COIL SOLENOID	12V - 20W

<b>ECU</b>	<b>OMEGAS DIRECT 3.0</b>	
	CLASS IP	IP6K9K
	VOLTAGE POWER	10-16 Vdc
	WORKING TEMPERATURE	-40°C ÷ 120°C
	ENTRY CONNECTION	60 PIN
	DIMENSION	196x163x43 mm

<b>RAIL INIETTORI</b>	<b>GIRS12</b>	
	INJECTOR TYPE	Normalmente chiuso
	CLASS IP	IP54
	CONNECTOR	MTA HP6
	WORKING TEMPERATURE	-30°C ÷ 95°C
	WORKING PRESSURE (RELATIVE)	Max 3bar
	VOLTAGE - CURRENT WORKING	9/16V - 1,5A
	OPENING - CLOSING TIME	1,9 ms - 2,0 ms

<b>SWITCH</b>	<b>SQUARE</b>
	<p>An electronic control module with the characteristic square shape whose functions are:</p> <ul style="list-style-type: none"> <li>• gas / gasoline switch and indication fuel in use by means of two LEDs</li> <li>• display of the quantity of gas present in the tank using 5 LEDs.</li> </ul> <p>The switch also has a buzzer which comes into operation in the following conditions: back to petrol for low pressure, back to petrol for diagnosis.</p>

## VERSIONS

DESCRIPTION	CYL.	KW	PRESSURE REGULATOR	ECU	RAIL
KIT CNG 5-8C OMEGAS DIRECT 3.0	5-8		NG2	OMEGAS DIRECT 3.0	GIRS12
MINIKIT CNG 5-8C OMEGAS DIRECT 3.0	5-8		NG2	OMEGAS DIRECT 3.0	GIRS12