

# OMEGAS 4.0



## FEATURES

The LANDIRENZO OMEGAS 4.0 electronic control unit with an aluminium body, designed and built for integration with the electronics on new generation Euro 4, Euro 5 and Euro 6 vehicles, offers you the possibility of connecting to your vehicle's OBDII (On Board Diagnostic II) to:

- acquire and monitor petrol correctors during gas operation
- compensate for variability in the quality and composition of gas

Use Omegas 4.0 to check the petrol injector connection and conduct diagnosis of operation on individual gas injectors, and to manage partially petrol-fuelled operation, guaranteeing excellent performance in terms of quality and durability. Its PIN-outs enable the ECU for management and control of external electronic devices.

Omegas 4.0 is Connect Ready (compatible with Landi Renzo Connect).

## FUNCTIONALITIES

OBD II Vehicle CAN

Scan Tool integrated in the SW as a support to the calibration

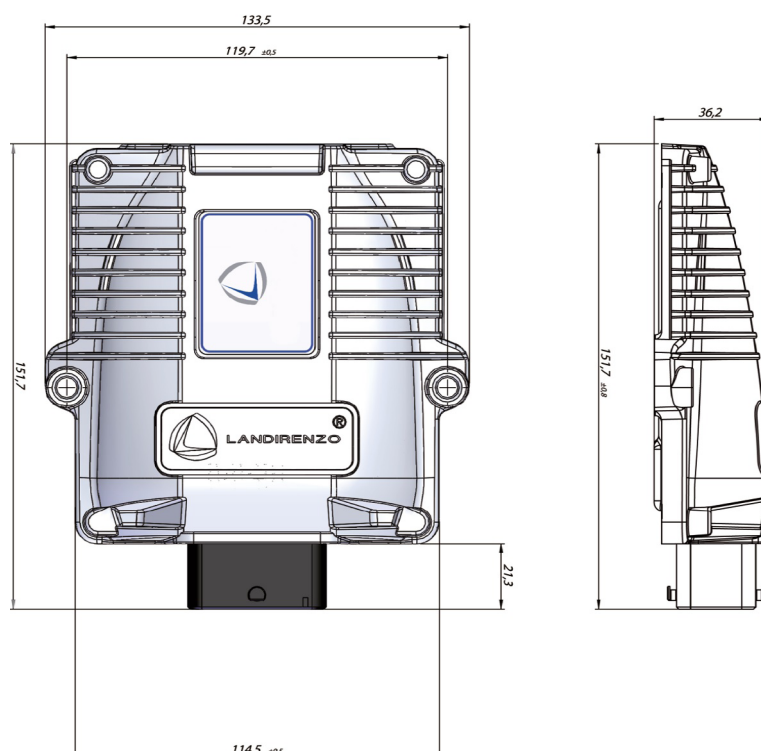
external relay Command exclusion petrol pump

variator external advance Command

Reading also RPM signals from wheel sensors phonic effeto lobby

Calibration Map contributui petrol and gas fuel passage

Connect Ready



## HOMOLOGATION

E3 67R-6043  
E3 110R-006070  
E3 10R-036385

## TECHNICAL DETAILS

TECHNICAL SPECIFICATIONS	
GAS TYPE AND NUMBER OF CYLINDERS	LPG, CNG - 2÷4 CIL
CASE	METALLIC
SUPPLY VOLTAGE	10 ÷ 16 V
MAX CURRENT WITH ACTUATORS OFF	≤ 0.5 A
STANDBY MAX CURRENT:	≤ 50 µa
DRIVER INJECTORS:	4
SOLENOID VALVES OUTPUT:	2
MAXIMUM CURRENT (FOR SINGLE OUTPUT):	2A
FLASH MEMORY:	128 kb
PROCESSOR SPEED (pII):	50 MHz
WEIGHT:	196 g
DIMENSION:	134x152x36 mm
WORKING TEMPERATURE:	-40°C ÷ 110°C
CLASS IP :	IP6K9K
ECU CONNECTOR:	48 PIN

## FEATURES

HW GENERAL	OBD	SENSOR LEVEL	DIAGNOSIS	LAMBDA	COMMUNICATION
<ul style="list-style-type: none"> <li>Current control Inj Gas Driver (new ST drivers)</li> <li>Buffered MAP (original signal reading)</li> <li>Low standby current (Iq &lt; 50µA)</li> </ul>	<ul style="list-style-type: none"> <li>CAN OBD connection</li> <li>Fast/Slow trimmer reading</li> <li>Auto-adaptive Strategy</li> <li>Showing of main scan tool parameters</li> <li>Petrol OBD CONNECTION</li> <li>OBD error reset (complete or selective)</li> </ul>	<ul style="list-style-type: none"> <li>Management of level sensor AEB/LR/0-90 ohm</li> <li>Management of level sensor Cartesio</li> <li>Management of custom level sensor</li> <li>Refueling detection</li> <li>Gas level</li> </ul>	<ul style="list-style-type: none"> <li>Gas injectors</li> <li>Injectors flow correction</li> <li>Sensor and switch</li> <li>Gas injectors enable/disable</li> <li>Real time diagnosis on petrol injectors connection</li> </ul>	<ul style="list-style-type: none"> <li>Lambda probe reading</li> <li>Linear lambda probe UEGO emulation</li> <li>Lambda probe emulation</li> </ul>	<ul style="list-style-type: none"> <li>Serial usb</li> <li>Serial wireless</li> <li>App connect</li> </ul>
OTHER STRATEGIES	SWITCH TO GAS STRATEGIES	GAS STRATEGIES	PETROL STRATEGIES ON GAS	PRESSURE SENSORS	SWITCH TO PETROL STRATEGIES
<ul style="list-style-type: none"> <li>Start &amp; stop</li> <li>Valvetronic vehicle management</li> <li>Pressure gas work setting</li> <li>Input for the level of oil dispensing systems (alternative to the Gas level sensor)</li> <li>Petrol Pump Cutting</li> <li>Petrol Pump FeedBack</li> <li>Ticket Service</li> </ul>	<ul style="list-style-type: none"> <li>Smooth Change Over petrol to gas (Custom transition between cylinders)</li> <li>Smooth Progressive Switching to gas: Change Over / Cut Off / Idle to Petrol / Other</li> <li>Switch to Gas on water temperature</li> <li>Switch to Gas on gas temperature</li> <li>Progressive standard Change Over petrol to gas</li> <li>No switch (Button disabled)</li> </ul>	<ul style="list-style-type: none"> <li>Autotuning</li> <li>12x12 gas map</li> <li>Switch Led dimmer</li> <li>Switch Buzzer Volume setting</li> <li>Changing GAS injections sequences</li> <li>Antistall</li> <li>Pre heating Gas Injectors</li> <li>Flex fuel</li> <li>Extra injection management</li> <li>Dither</li> </ul>	<ul style="list-style-type: none"> <li>Split fuel option</li> <li>Automatic Petrol addition</li> <li>(Gas Inj. Time &gt; Cycle Time)</li> <li>Petrol addition Full Map</li> <li>Petrol addition with sequence advance activated</li> <li>Petrol addition high RPM &amp; high T_INJ</li> </ul>	<ul style="list-style-type: none"> <li>Management of Gas pressure sensor</li> <li>Management of MAP sensor</li> <li>Management of system without MAP sensor</li> </ul>	<ul style="list-style-type: none"> <li>TEMPERATURE SENSORS</li> <li>Management of water temperature sensor</li> <li>Management of gas temperature sensor</li> </ul>