

CMR101B & CMR101R

Air / Fuel Ratio Acquisition System

version 1.0

Description:

The Air / Fuel Ratio Acquisition System allows to manage a wide band oxygen sensor (UEGO), and to display the calculated values like average richness, air / fuel ratio, air excess (lambda) or oxygen rate and its transmission to an external system. Available in two versions (polyvalent case or 19" rack), the CMR 101 is the ideal tool to measure with precision and with a short response time, the internal combustion engine richness during a vehicle development activity or in an engine development process.



Digital display :

- 4 digits red DEL.
- Possibility to display in real time the richness, the oxygen rate, the air/ fuel ratio, the air excess (lambda).
- Operating condition display of the sensor : heating, calibration...

Bargraph :

- 20 segments red and green.
- Graphical representation of the Air / Fuel ratio in real time.
- It is possible to change the parameters of the limit values of the bargraph to optimize its use according to adjustment aims.
- The two colors allows the user to deduce intuitively the variation between the Air / Fuel ratio in progress and the objective to be reached.

Technical characteristics :

- Response time : 100ms.
- Precision : +/-1% of the full scale.
- Measurement range of the lambda coefficient : from 0.7 to 2.
- Digital management of the sensor heating. Heating time : 60s maxi.
- Integrated calibration procedure of the sensor.
- Lambda value available for every fuel type : petrol, diesel, LPG, methanol...
- Alimentation 220V AC.

Communication with an external system :

- Analog output, with different configuration available : Air / Fuel ratio value or low band probe emulation of the original vehicle.
- Interface RS232C / 485 with a supervisor computer to do the setting and to communicate all the measured values.

Delivery contain :

- 1 system CMR101B, polyvalent case, size : 220x173x60 mm - 1,7 kg. or 1 system CMR101R, 1U high 19" rack, size : 432x248x40 mm - 3 kg.
- 1 Wide band lambda sensor (UEGO), cable l=8m.
- 1 220V wire.
- 1 User manual.
- 2 Angle brackets (CMR101B version : polyvalent case).

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