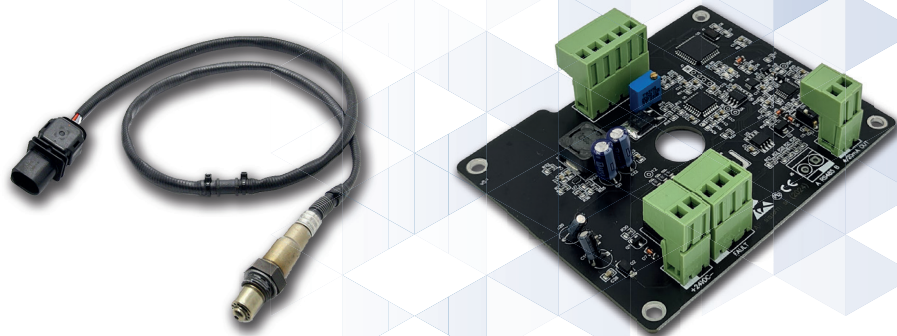


# *OXYGEN MEASUREMENT WITH LAMBDA PROBE*



## ICOMB SERIES

MANAGEMENT AND INTERFACE BOARD FOR BOSCH 4.9 AND 5.2 LAMBDA PROBES  
WITH ANALOG OUTPUT PROPORTIONAL TO THE OXYGEN VALUE READ BY THE PROBE

- CALIBRATION WITH TRIMMER IN AMBIENT AIR WITHOUT THE USE OF CYLINDERS
- REMOVABLE TERMINALS
- ANALOG OUTPUT IN VOLTAGE OR CURRENT
- RELAY OUTPUT
- DIAGNOSTIC LED

### APPLICATION SECTORS

- GAS BOILERS
- BIOMASS BOILERS
- ENGINES
- COGENERATORS
- INDUSTRIAL FURNACES
- INDUSTRIAL PROCESSES

## SERIE ICOMB

OXYGEN MEASUREMENT WITH LAMBDA PROBE



EVERYTHING UNDER CONTROL

## MANAGEMENT AND INTERFACE CARD FOR BOSCH 4.9 AND 5.2 LAMBDA PROBES

Ascon TecnoLogic has developed the NEW Z02SCHEDA04 board for the management and interface of Bosch LSU 4.9 and 5.2 lambda probes. The board finds its main application in the continuous measurement of residual oxygen in the combustion fumes of engines, cogenerators and boilers powered by methane gas or biomass, industrial furnaces and other processes that require oxygen measurement.

The new Z02SCHEDA04 board presents significant improvements compared to previous versions including precision, the addition of the voltage output, the limitation of the power supply current absorption. For the connection to the lambda probe it is possible to use the central hole as a cable passage or the groove near the connection terminal, thus facilitating and expanding the possible solutions for housing and installing the board.

The board/sensor calibration can be carried out in ambient air without the aid of titrated cylinders, simply by acting on the adjustment trimmer on the board..

### TECHNICAL FEATURES

		NOTES
Power supply	24 Vdc $\pm 10\%$	
Max power consumption	0.8 A	
Output	4... 20 mA, 0... 10 V	Active non-isolated output, DIP switches select
O <sub>2</sub> % measurement range	0.5... 25%	
Range	0... 20.96%, 0... 25%	Settable via DIP switch
Accuracy	$\pm 0.5\%$ f.s.	In the range 0.5... 20.96 % O <sub>2</sub>
Response time	<50 ms	
Sensor warm-up time	<15 s	With automatic temperature control
Calibration	20.96%	In ambient air with trimmer
Operating temperature	-20... +55°C	
Anomaly output	Relay SPDT, NC/NO	Red LED / relay switching in case of: <ul style="list-style-type: none"><li>- warm-up time</li><li>- oxygen value &lt;0.5%O<sub>2</sub></li><li>- probe disconnected</li><li>- probe anomaly</li><li>- heater anomaly</li></ul>
Removable screw connectors		Power supply 24Vdc Output 4...20 mA / 0...10V Fault contact Probe wiring (5 wires)
Interface components		Red LED, green LED and DIP switches

### HOW TO ORDER

DESCRIPTION	CODE
Management and interface board for Bosch LSU 4.9 and 5.2 lambda probes - 04 version	Z02SCHEDA04

### DIMENSIONS

