

# Exhaust oxygen sensor

UEGO Wide band lambda + controller



## Description

Proportional wide band oxygen sensor able to measure the air fuel ratio between 9.6 and 19.1 AFR. Direct 0-5v signal output may be connected to any ECU or data logger.



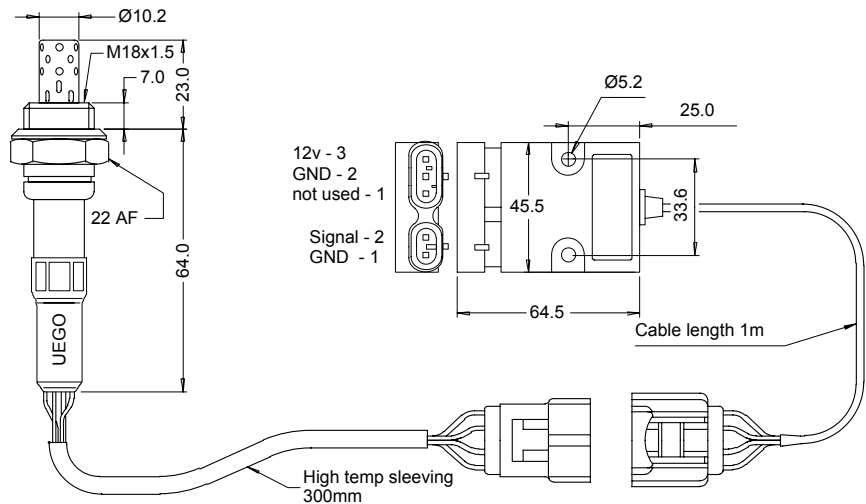
Notes: The sensor is designed for use with lead free fuel. Any prolonged contact with lead (Pb), Phosphorous (P), Silicon (Si) will cause damage to the sensor. Do not use in a running engine with the heater switched off.

The controller is housed in a compact ABS case with all electronics for amplification and control of the sensor & heater.



## Dimensions

Lambda	AFR	Volts	Bits
0.65	9.6	0.64	131
0.7	10.3	1.15	236
0.71	10.4	1.27	260
0.74	10.9	1.58	324
0.77	11.3	1.89	387
0.8	11.8	2.23	457
0.83	12.2	2.52	516
0.86	12.6	2.83	580
0.89	13.1	3.14	643
0.9	13.2	3.22	659
0.93	13.7	3.46	709
0.97	14.3	3.77	772
1	14.7	4	819
1.1	16.2	4.36	893
1.2	17.6	4.65	952



## Technical Data

Operating tip temperature range..... 750 to 950 °C  
 Maximum tip temperature rate of change ..... 50 °C/sec  
 Maximum tip temperature..... 950 °C  
 Maximum hex temperature..... 500 °C  
 Maximum output wire temperature ..... 240 °C  
 Maximum connector temperature ..... 120 °C

Heater Voltage..... 10.5±0.5 V  
 Heater Current (max) ..... 1.8 A  
 Shock - sensor..... 30 g's  
 ..... 0.8 m  
 Weight - sensor..... 100 g  
 Tightening torque..... 40±4 Nm

Notes:

- Sensor to be installed within 80° of vertical in the exhaust pipe to avoid fluid contamination within the pipe
- Do not use fuel that contains harmful materials such as Pb, P, S, Si etc

## Ordering information

Part No.	Description	Order Code
LZA03-E1-P	UEGO lambda sensor – production version	
EFE26	Controller	

For further details please contact

Competition Systems Ltd  
 Hyjuniper, Long Lane, Shaw,  
 Berkshire,  
 RG14 2TA  
 England

Tel: +44 (0)8707 444666  
 Fax: +44 (0)8707 444888  
 mail@competitionsystems.co.uk