

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.



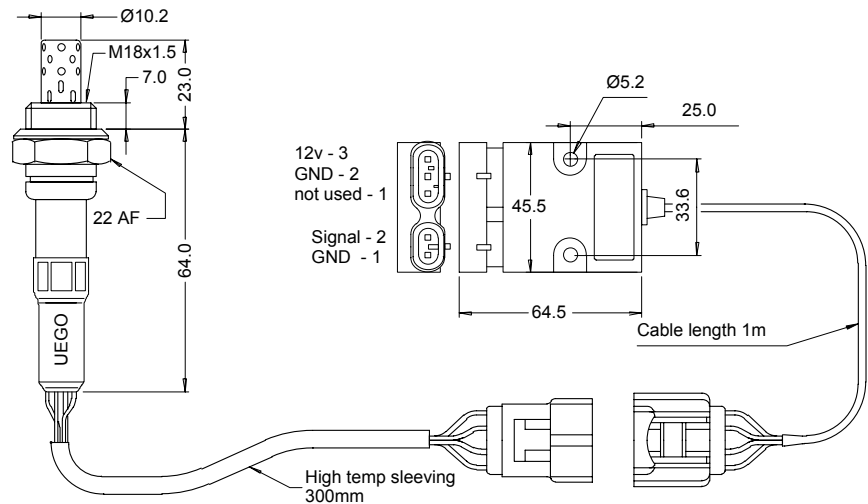
Notes: The sensor is designed for use with lead free fuel. Any prolonged contact with lead (Pb), Phosphorous (P), Silicon (Si) will cause damage to the sensor. Do not use in a running engine with the heater switched off.

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 change50 °C/sec
 Maximum tip temperature.....950 °C
 Maximum hex temperature.....500 °C
 Maximum output wire temperature240 °C
 Maximum connector temperature120 °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