

** For Professional Use Only **

** Not Certified for Medical / Laboratory Applications **

1) Voltage Requirements

This unit is powered by 12VDC

Model LP-A-05-12-49: gives 0-5V analogue output

Model LP-A-10-12-49: gives 0-10V analogue output

2) IP rating

Control module is ingress protected to IP53

3) Connections / Wiring colours

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Connector A) Red = +12VDC; Black = 0V Ground; Violet = 0 to 10V analogue output

Connector B) Six-Way connector for Lambdapower 69001 oxygen sensor - Red=Pump Cell, White=Heater Control, Green=Sensor calibration resistor, Yellow=Virtual Ground, Grey=Heater Supply +ve, Black=Nernst Cell

*** This cable is pre-wired and should not be disturbed ***

4) Using the module

Output in static air may not quite reach FSD (full scale deflection) - this is due to the following factors:

a) Individual sensor's characteristics

b) Height above sea level

c) The sensor is primarily designed for positive pressure gasflow applications. Gasflow will in general raise the value. Cold gas will in general reduce the output.

Use the resting voltage to calculate a scaling factor if desired in applications with low or stationary gasflow:

Theoretical scaling factor:

Oxygen% = Analogue Voltage * 2.090

Example practical scaling factor:

Oxygen% = Analogue Voltage * 2.101

Draft instructions are subject to change. 2022-12-04 v0.3

Suggestions? Errors? Let us know at translate@lambdapower.eu