

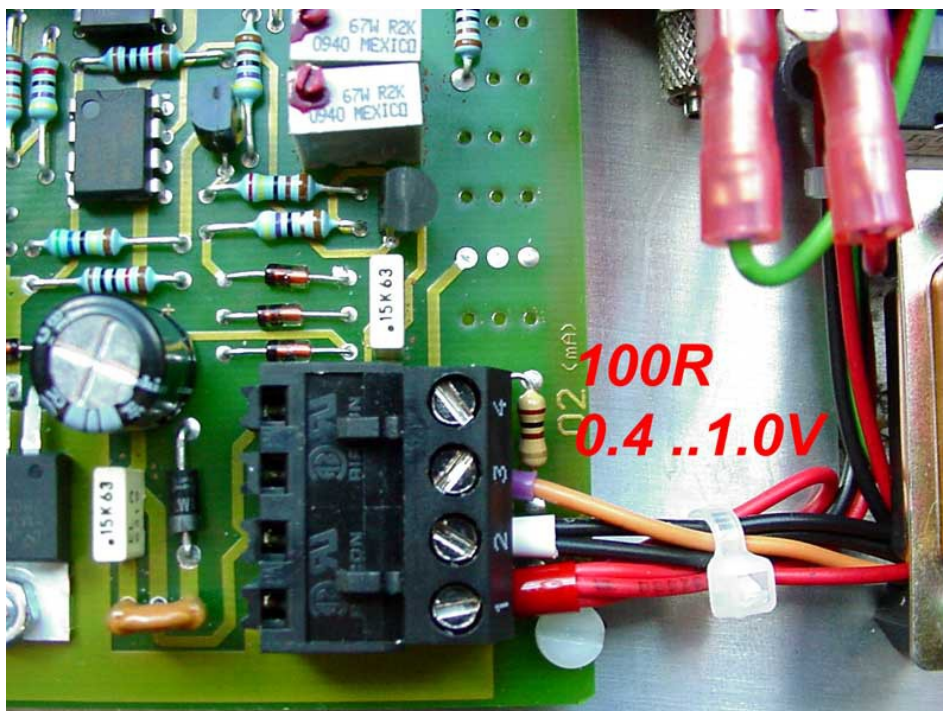
Title:	O2_N2 Sensor Board			ID:
				0386
Date in:	Response:	Model:	Author:	
2013-03-05	2013-03-05		CMA	

Q:

Is the O2 sensor analog type or digital. Can I also calibrate the board or just display board. Are there voltages that I can check at the PCB board?

A:

Analog, current output that we convert into voltage by a resistor



Adjustments on display only

You may measure the output voltage

To calibrate use (fresh air). It's 21% vol. O2. Flush with N2. Reading should be 0 resp 4mA resp 0.4V.

Specifications:

Model:	FCX-MCxx-CH
Measuring range:	0,05...25%
Supply voltage:	24VDC nominally (11,5...28VDC)
Supply current:	typ. 250mA (24VDC), switch-on point approx. 0,7A
Power:	3W
Output signal:	4...20mA current loop / 0..20mA selectable Load resistor for operation max. 9V
Resolution:	Input side : 10bit AD Output side: 11bit DAC
Accuracy:	0.5%FS
Stability:	0.5%FS / year
Operating Temp.	-10 .. 50°C
Humidity:	<98% non condensing
Temperature influence:	Measuring error [in % pO ₂] ~ pO ₂ [% x (Te[°C] -25°C) / 500 Te = environmental temperature of the sensors
Response time:	<30 sec. T90
Warm-up time:	3 min.
Gas temperature:	-10...+50°C
Flow rate:	0.5 ... 3 l/min
Dimensions:	125 x 100 x 25mm (L x W x H)
Weight:	200g