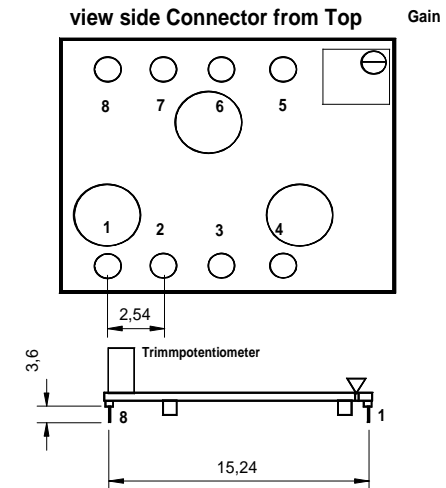
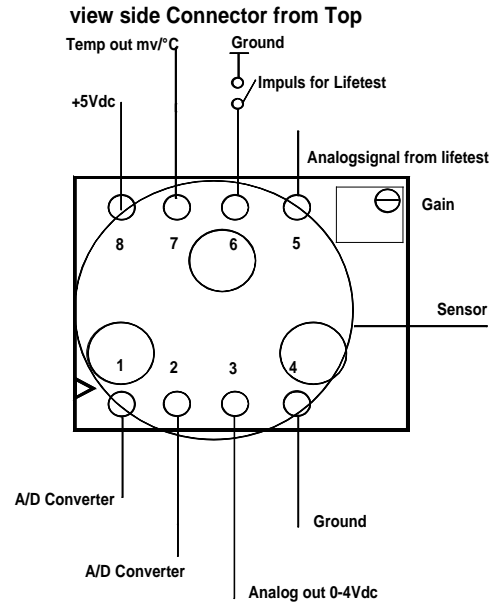


Specification Sheet for O2 - Sensor with Electronic

Device-Type:

O2 – Sensor

Sensor Type	:	electrochemical
Construction	:	3 Electrode on ceramic
Electrolyte	:	Solid electrolyte
Temperatur range	:	- 20 bis + 60°C
Humidity range	:	5 to 95 % r. F not to condense
Measuring range	:	0,0 to 30 Vol% O2
Lowest measuring range	:	0,1 Vol %
T 90	:	typical 30 sec. with 20°C
Sensor current	:	typical 0,035 nA / ppm O2
Warm upTime with Gas	:	typical 10 min.
Dimension	:	d 20mm x h17mm
Measuring principle	:	Amperometric



General Information

- Power supply : 5 Vdc max
- Measurin range : 0 - 35% =2
- Signaloffset : 0,002V dc
- Signal out : 0,002 - 4,8Vdc
- Adjustet : 2,1 Vdc = 21% O2
- Temperatur compensation: no
- Amplification: with trim potentiometer
- Digital output : no /Yes as option
- Bias Voltage: 600mV
- Temperatur output: -40°C to 125°C/ -40°C=100mV+125°C=1750mV
- The outputsignal is adjustable between 0-4,8 Volt dc.
- Pin characteristics:
- 1= gigital out
- 2= digital out
- 3= Analog out 0-4 V dc
- 4= Ground
- 5= Signal Life test
- 6= Start Life test
- 7= Temperatur out 0,1-1750 mV dc
- 8=+5 V dc

For observance

The electronic can be operated with a supply voltage of 2,4 to 5Vdc. Voltages higher then 5Vdc, destroy the electronic. It is to be considered if the supply voltage is less than 5Vdc, all the output signal corresponding smaler. Genel the board delivered for 5Vdc. On customer request, the board of the required voltage is adjusted.

Material	Revisions Nr.	Datum	Auftrags Nr.	Datum	Firma	HATEL GmbH elektronische Anlagen Felix-Wankel-Strasse 5 D 82152 Krailling		
			Erstellt von Haag	10.05.2013	Titel	elektronik board for electrochemical sensor O2		
			Geprüft von		Größe	Ausgabe	Zeichnungs Nr. Pin 003	
			Geändert von		Maßstab		Blatt 1 von 1	
			Versions Nr.					
technische Änderung vorbehalten			Kunde					