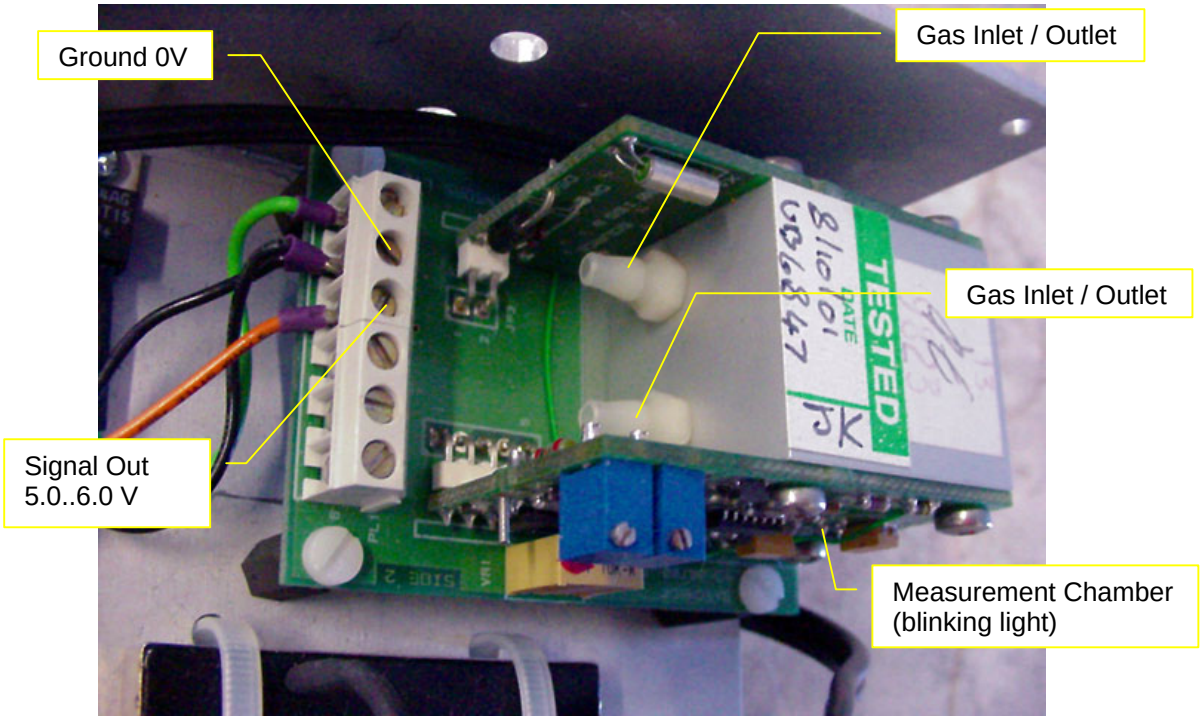
Title:	Diagnose of CO2 Sensor	ID:
		0078

Date in:	Response:	Model:	Author:
2006-08-15	2006-08-15	-	CMa

CO2 IR Absorption Sensor

To check functionality of the CO2 sensor:
All hoses to and from the sensor should be condense water free. If there is water inside the tubes the gas conditioner is defective. In this case most likely the sensor is damaged too.



The CO2 sensor is a IR absorption sensor and you should see a blinking light on the sensor PCB. The sensor outputs a voltage 5..6V 0.1V / %CO2 on the terminal block. The terminal Sig+ should have ~5.0 V when low CO2 and 6.0 when 10% CO2. If this is the case, the sensor is fine.
If the voltage is ~5.0V you should disconnect the hoses at the Gas In- / Outlet and blow a small amount of CO2 through the sensor. If no CO2 is available you may take a deep breath hold the air as long as possible and then blow the air through the sensor. Only very small amounts of are needed.
If the voltage now changes the error is most likely in the hosing system. No air gets form the chamber to the sensor.
If the voltage at the terminal changes and the display stays the error is most likely in the display or in the cabling to the display.