

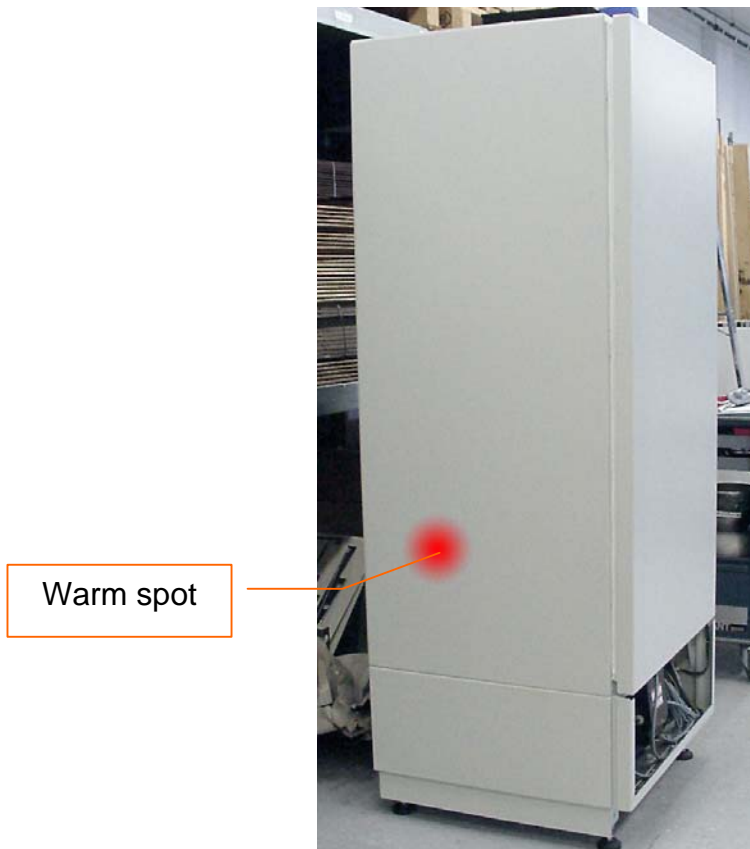
Title:	<b>Condense Water in CO2 Tubes</b>			ID:
				0056
Date in:	Response:	Model:	Author:	
2006-03-04	2006-03-04	-	CMa	

## Q:

I have condense water in the tube of the CO2 system. The output voltage of the CO2 sensor is 4V instead of 5..6V

## A:

Most likely there is condense water inside the measurement cell of the CO2 sensor and your gas conditioner is not working. The gas conditioner removes the humidity of the air withdrawn from the incubation chamber and fed to the sensor. The gas conditioner has a peltier element. If this peltier element work correctly there should be a warm spot on the at the back end of the left outer skin of the incubator housing..

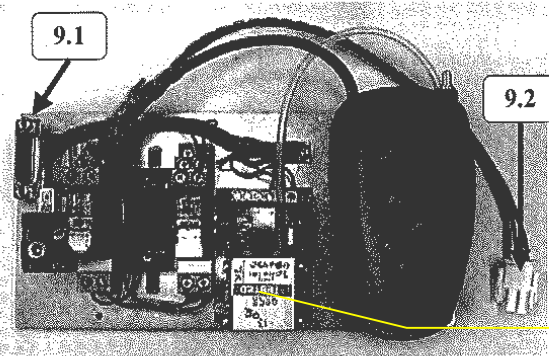


If this is not the case you may measure the current fed through the peltier element. It should be ~5 ADC.



StX 40/200

CO2-Modul 9.xx



CO2 Sensor Measurement Cell

9.1 CO2-Modul

Von	Bezeichnung	Nach	Farbe	D-Sub 15 polig male		Farbe	Nach	Bezeichnung	Von	
1.3.23	+24 V	9.1.1	bn				bn	9.1.9	CO2 Disp +	2.6.15
1.3.24	GND	9.1.2	wt				-	9.1.10	NC	-
1.3.25	CO2 Ventil	9.1.3	gn				-	9.1.11	NC	-
1.3.26	Pump	9.1.4	ye				-	9.1.12	NC	-
-	NC	9.1.5	-				-	9.1.13	NC	-
-	NC	9.1.6	-				rd	9.1.14	Peltier +5V	Peltier
-	NC	9.1.7	-				bk	9.1.15	Peltier 0V	Peltier
-	NC	9.1.8	-							

Steckeransicht von Bestückungs Seite

The voltage (5VDC) for the peltier element is generated by a DC-DC converter located on the CO2 module.