Title:	**No Temperature Control**		ID:
			0161

Date in:	Response:	Model:	Author:
2003-05-05	*2003-05-05*	*STX40*	*CMa*

Q:

We still have several problems with the StoreX 40 HR.
First we had a phone call from the customer that the plate handler stopped during a run. The time that this problem occurred was random. I went there this morning and saw that the rotation handler of the transport handler sometimes hit a black cable which is connected to the transport handler. This caused the problem that the plate handler didn't move any further. Also I saw that the rotation handler hit the barcode reader. So I also changed this. So this is working now!

But there is also a problem with the Temperature settings. If I look at the front of the StoreX I see that the actual Temp. is 00.0 and also the RH is 00.0.
If I use the command: RD DM890 I receive 00370 So the Set temp is 37degrees. This is good!
But if I use the command: RD DM982 I receive 00000. This is not OK! The StoreX is really Hot inside! So it is heating. Also the RH is 000.

What could be wrong with this?

Another problem is that the customer has to set every time with a command the maximum temperature of the instrument. He thinks every time that it is 50 degrees, instead of 70 degrees. How can we solve this?

StoreX 40 SA/HR: 1182 HR

With barcode reader and standard transfer station. Send from LiCONiC on 13/1/2003.

A:

Obviously the controller does not get the readouts of the display. The display send the data to the controller. The content of what the display sends is in

- for temperature   DM992 ADC valu   DM982 converted valu (1/10deg)
- for humidity   DM993 ADC valu   DM983 converted valu (1/10%)
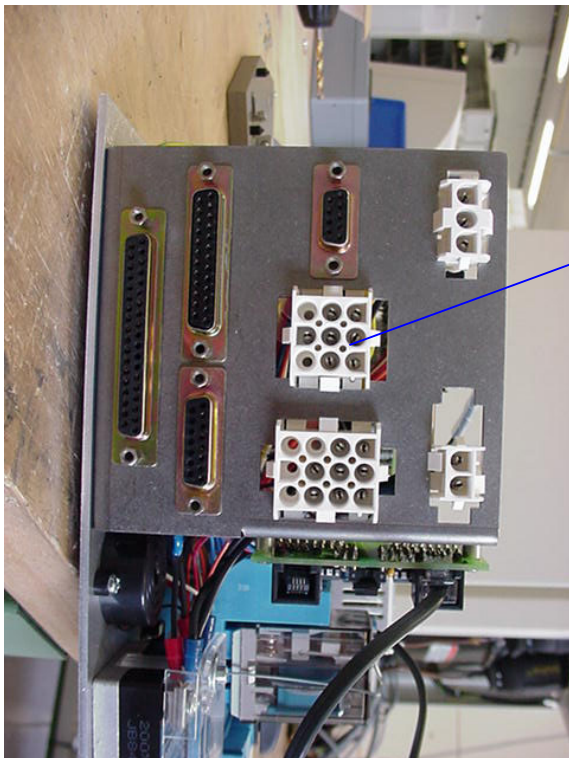- for CO2   DM994 ADC valu   DM984 converted valu (1/100%)

The data is sent though one single cable for each display. The pin of the data port is located on the D-SUB connector on the back side of the display. The data port is on pin 9. On the PLC controller the data is connected

- temperature   PLC input 006
- humidity   PLC input 007
- CO2   PLC input 008

These inputs should be "blinking" as these received data (~10Hz). You can either observe the LED on the PLC or read the inputs through the terminal (e.g. RD 6, RD 7..).
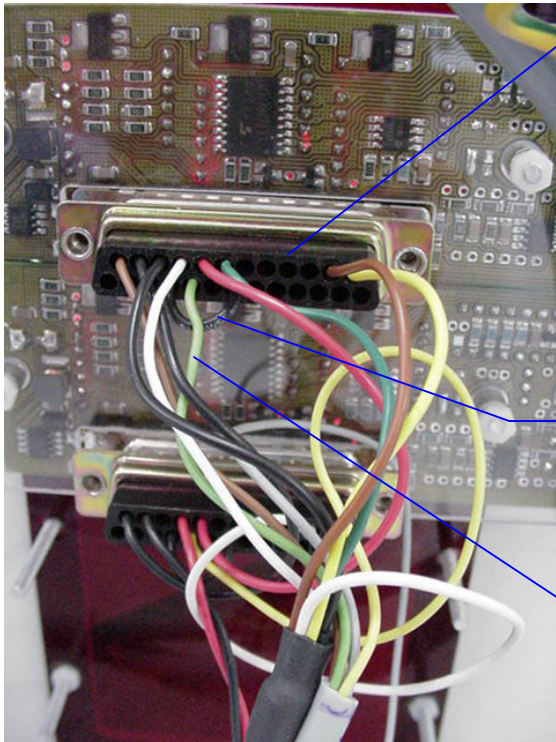
Please check if you have communication and - if not - for bad contacts. Also, please disconnect the heaters until you have proper readings. There heaters are on the white 9pin connector in the connector panel of the module.

StoreX Heater/Cooler Connector

Heater / Cooler Connector

StoreX Temperature Display Connector

Temperature
Display
Connector
D-SUB 25 Pin

Ground Bridge for Data Port
(black Pin7 to Pin10)

Display Data Readout
(green Pin 9)