Title:	Temperature RH Sensor Failure					
Date in:		Response:	Model:	Author:		
2003-10-23		2003-10-23	-	CMa		

Q:

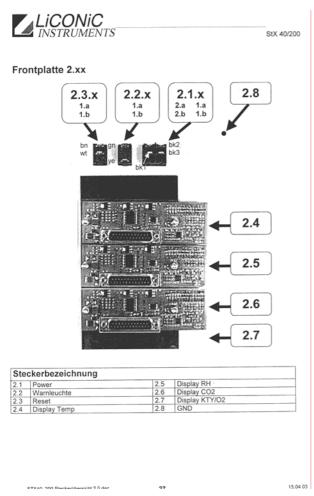
The temperature and humidity display show 0.00. I want to check the cables. Can you send me the schematics? The StoreX number is #1142. Thanks!

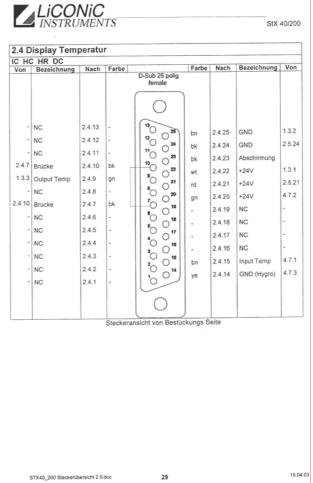
A:

Your StoreX has an analog temperature / humidity processing. The connectors 2.4 and 2.5 are located at the displays. The signal for temperature is on pin 14 (sensor GND) and pin 15(temperature signal). The voltage between these two pins is -1..1 Volt. It should read the temperature in 10 mV/°C (e.g. 25°C = 0.25V). On the humidity connector 2.5 there is the RH signal line only (pin 15). To measure the sensor RH-signal you may connect ground of your meter to pin 14 of the temperature display connector (2.4) and the positive end to pin 15 of connector 2.5.

The sensor cable is extended in length and is therefore made of two cables. Note the color change of the wires.



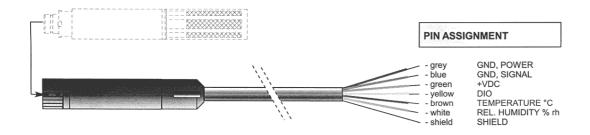


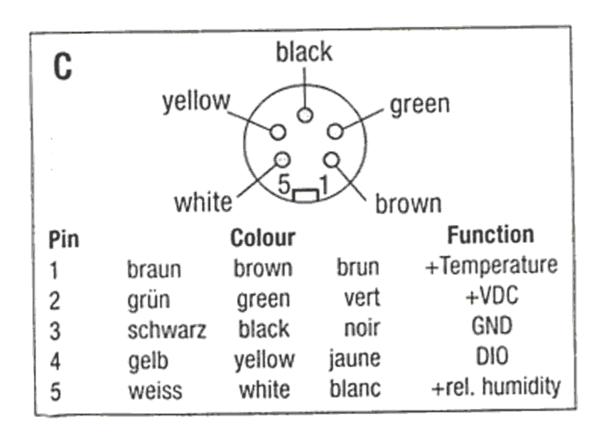




StX 40/200

C HO	Bezeichnung	Nach	Farbe		Farbe	Nach	Bezeichnung	Von
				D-Sub 25 pollg female				
	20.00			0				
	NC	2.5.13		130 28	bk	2.5.25	GND	2.6.24
- 5	NC	2,5.12		120 24	bk	2.5.24	GND	2.4.24
	NC	2.5.11	-	1100-11		2.5.23	GND	
2.5.7	Brücke	2.5.10	bk .	10 2	rd	2.5.22	+24V	2.6.21
1.3.4	Output RH	2.5.9	ye	0 21	rd	2.5.21	+24V	2.4.21
-	NC	2.5.8	-	* 0 20 m	14	2.5.20	+24V	-
2.5.10	Brücke	2.5.7	bk	70 0 19		2.5.19	NC	
-	NC	2.5.6	+ 1	60 0 13		2.5.18	NC	2
	NC	2.5.5		50 0 17		2.5.17	NC	
-	NC	2,5.4	*	40 0 18		2.5.16	NC NC	
-	NC	2.5.3	-	30 0 15	wt		Input RH	4.7.5
-	NC	2.5.2	- 1	20 0 14	0.000	100000000000000000000000000000000000000	NC NC	E-712572
-	NC	2.5.1	-	1000		2.5.14	NO	-









StX 40/200

Kabelbelegung

Stecker/Pin	Farbe/Nr.	Kabel Pos	Bezeichnung	Stecker/Pin
4.7.1	bn	1	Temp	bn
4.7.2	gn	1	+24V	gn
4.7.3	gy	1	GND	ye - Ye
4.7.4	ye	1	DIO .	-
4.7.5	wh	1	RH	wh
	Abschirmung	1	Abschirmung	Abschirmung

Stecker/Pin	Farbe/Nr.	Kabel Pos	Bezeichnung	Stecker/Pin
	bn	3	Temp	2.4.15
	gn	3	+24V	2.4.20
	ye	3	GND	2.4.14
	wh	3	RH	2.5.15
	Abschirmung	3	Abschirmung	2.4.23

Montage Anweisungen

- die Abschirmungen werden miteinander verbunden und mit einem schwarzen Kabel auf Stecker 2.4.23 geführt
- beim verlöten werden alle Kabel mit einem Schrumpfschlauch isoliert