

Pre-Certification Check List

I. Locate Flow Sensor	Model # =	PIPE SIZE =
II. Locate Supply Temperat	cure Sensor	
III. Locate Return Tempera	ture Sensor	
IV. With Temperature Input (Option Slot#1) connector unplugged, measure the resistance between the connector points listed below. When standard Data Industrial 10,0000 OHM Thermisitors's are used, the results should be as follows:		
T1+ to T1- =	(Should be about 10,000Ohms)	T1+ T1-
T1- to COM	(Should be about 0 Ohm – Due to Ju	mper) COM
		T2 +
T2- to COM	(Should be about 0 Ohm Due to Jum	per) T2- SHLD
	e across T+ and T- increases with tem $50^{\circ}\text{F} = 19,903\Omega$ $77^{\circ}\text{F} = 10,000$	perature
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Monitoring chill water lines resistance measured between T1+ and T1- will be more than resistance measured between T2+ and T2-. Hot water lines will be the reverse.

- V. Inspect Power Connections
 - 1. Ground to GND
 - 2. 120VAC Phase to "L"
 - 3. 120VAC Neutral to "C"
- VI. Inspect BAS Connection.
 - 1. Two wires should be connected to "Relay #1 COM" and "Relay #1 NO"
 - 2. There should be about 26VDC from the BAS system on these wires.
 - 3. Shorting these wires together should result in a pulse recognized by the BAS
- V. Connect Power to the Model 2300
 - 1. Display should light and show Values
 - Measure voltage across the Flow Sensor (Sensor "IN" to Sensor "GND") should be 7.2.0VDC to 9.6VDC. Any higher suggest a broken connection. Less than1VDC suggests a short



Model 2300 Initial Programming

- 1. Apply Power
- 2. Press "Menu" -

See "RESET SETUP DIAG"

3. Press "Setup" -

See (SETUP) "PWORD DSPY FLOW1"

4. Press "DSPY" and then "Enter/Next"

See (DSPY) "Line1 Line2"

5. Press "Line1" and then "1"

until "LINE 1 DISPLAY: FLOW 1 RATE"

- 6. Press "Enter/Next"
- 7. See (DSPY) "Line1 Line2"
- 8. Press "Line2"

and then "1" until "LINE 2 DISPLAY: TEMP1 and TEMP2"

9. Press Enter/Next twice

See (SETUP) "PWORD DSPY FLOW1"

10. Press "FLOW1"

See (FLOW1) " RATE TOTAL SENSOR"

11. Press "SENSOR"

See "(FLOW1 SENSOR) TYPE AVG DICAL"

12. Press "DICAL"

See "(FLOW1 DICAL) KNMU OFFSET"

13. Press "KNUM"

Use "↑" and "↓" to enter the "K" value from Flow Sensor Manual

- 14. Press "Enter/Next
- 15. Press "**OFFSET**"

Use "↑" and "↓" to enter the "offset" value from Flow Sensor Manual

16. Press "Enter/Next" and then "Menu"

17. Press "Menu" then "SETUP" then "Enter/Next" then "BTU" See (BTU SENSR) "RATE TOTAL SENSOR

- 18. Press "SENSOR" See (BTU SENSR) "TYPE CONST TMODE"
- 19. Press "TYPE" Select "10k THERMISTOR" with "Enter/Next"
- 20. Press "**MENU**" to return to the normal display, probably with a "**System Error**" flashing.
- 21. Press "MENU" See "RESET SETUP DIAG"
- 22. Press "DIAG" See "(DIAG) SER# SREV# ERROR"
- 23. Press "ERROR" -
- 24. See after a list of error codes "CLEAR ERROR? YES NO"
- 25. Press "YES" then "MENU" See Normal Display

If there is flow in the line the display should display it correctly, along with the correct supply and return temperatures.