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TO: Manufacturers' Representatives, Regional Managers, District Sales Managers, Technical Service, Customer Service, Service Agents

SUBJECT: Identifying and trouble shooting Sensor errors on CH/CF model numbers 401-2071.

Things to consider; if the meter reads a very high resistance, there may be a broken wire, poor wiring connection or a defective sensor. If the resistance is very low, the wiring may be shorted, there may be moisture in the sensor or the sensor may be defective. The display error codes in Fig 1 will assist in determining which sensor is at fault.

Testing the Sensor TST2313 (standard) or TST2311 (outdoor air). First using a reliable thermometer measure the temperature at the location of the sensor (water temperature for inlet, outlet, supply or air temperature for the OA) then with the sensor disconnected from the system measure the resistance. Use the below chart (Fig 2) to compare the temperature measured to resistance measured to determine if the sensor is good. The readings should be close.

Quick fixes:

Mode 1: Change controlling sensor in the program mode. Change the sensors around. Use the tank/system sensor that was shipped in the bag.

Mode 1 with OA: Change the inlet sensor to the OA location. Change the system sensor to the OA location operates off the outlet sensor.

Mode 2: Change inlet or outlet sensor to the tank sensor. Reprogram the controller to Mode 1 and select the inlet or outlet sensor as the controlling sensor.

Mode 3: Change the inlet sensor to the outlet sensor. Use the tank/system sensor that was shipped in the bag.

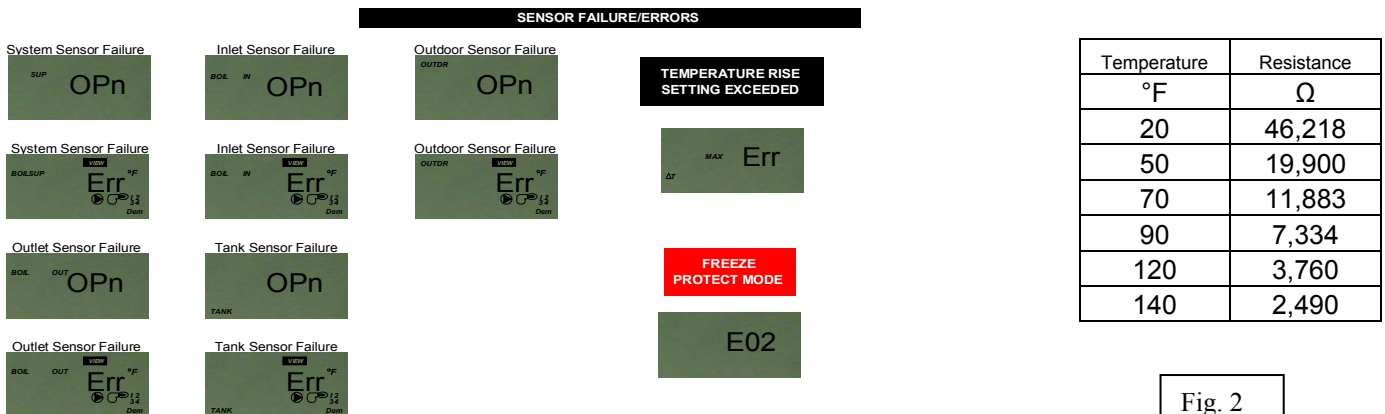


Fig. 2

Fig 1