

Kontrol-Flo Version 4.5 Software Changes

Recent field problems have been encountered where the flow meter temperature sensor is failing after the flow meter has been in operation a short period of time. Indications are that the failure is a temperature sensor manufacturing defect. The result of the sensor failure causes the meter to read non zero flow in a stopped condition.

This controller software version 4.5 is being provided as a software work around to the problem, should it occur, that will allow the user to continue operating in what is typically a short application window.

Note that this software chip can be installed only in controllers that are used with digital flow meters. A digital flow meter can be identified as one where the signal wires are attached to the top cover plate as shown in Figure 1. Older analog flow meters have the signal wires connected to the side edge of the meter and cannot be used with this version 4.5 chip.

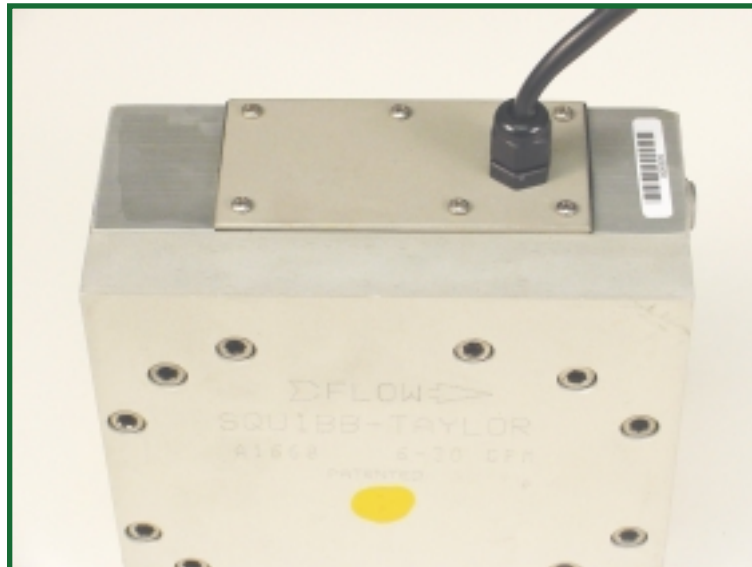


Figure 1

Temperature sensor error message while running

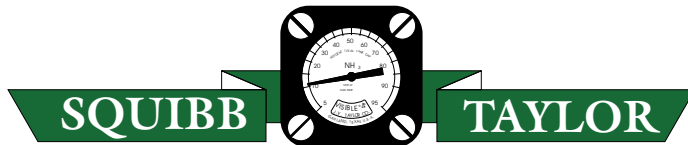
If a temperature sensor failure is detected while running a "Temperature Sensor Error" message will flash for 30 seconds and then stop. At that point, the default temperature will be read from memory and used for flow calculations. The factory set default temperature in memory is 30 deg F.

Starting Up with a Defective Temperature Sensor

At "power on" time, the temperature sensor is read to verify proper operation. If the controller is unable to detect the temperature sensor, a message will be displayed on the controller screen showing " Temperature Sensor Error" on the top line and " Using XX deg F " on the bottom line where XX is the current default temperature.

Changing the Default Temperature

At "power on" time, if a defective temperature sensor is detected and a message is displayed on the controller screen showing " Temperature Sensor Error" on the top line and " Using XX deg F " on the bottom line, the XX default temperature can be changed by toggling up or down to change the temperature and then hitting "select" to accept the change. If the displayed temperature is ok, hit "select" to accept. Note: the default temperature should be set at approximately 40 deg F less than the current air temperature with the minimum setting being 0 deg F. This is because the internal flow meter temperature is below air temperature due to the cooling effect caused by pressure drops in the system.



MANUFACTURED BY PGI INTERNATIONAL

214.357.4591
800.345.8105

squibb@squibbtaylor.com