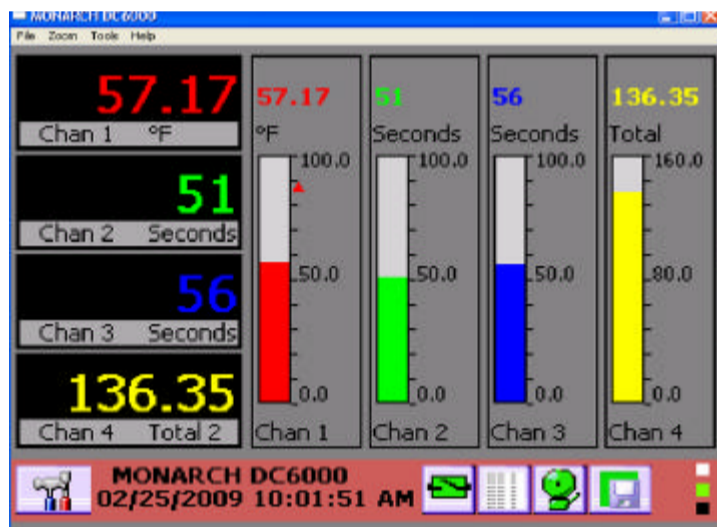




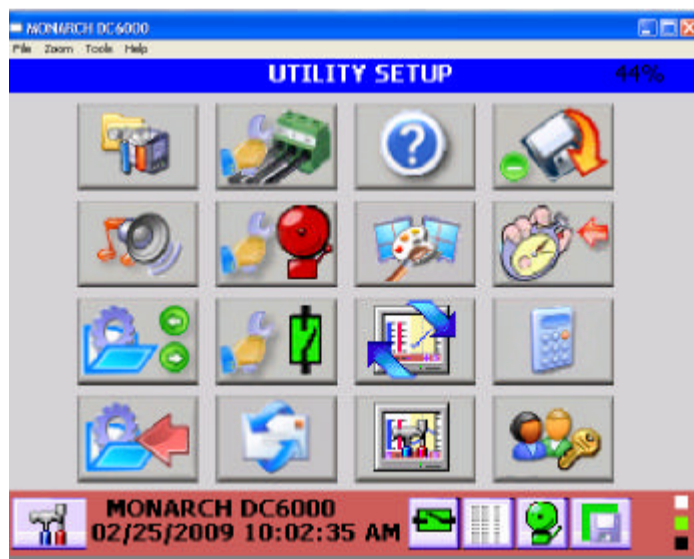
DATA CHART DC6000 APPLICATION NOTE

DATA CHART 6000 OFFSET AND SPAN CALIBRATION

It is often desirable to correct for a sensor's known error at one or two points along the scaled output data. This method can be used for Thermocouple, RTD, and Linear (voltage and current) inputs. Typically, these types of sensors are very repeatable. Once their overall accuracy (error) has been compensated for, the accuracy will remain improved for long periods of time. Although the sensor's characteristics will change very slowly over years of use, it is recommended they be rechecked at regular intervals varying from monthly to annually.



From the Data Display menu, shown above, use the stylus to touch the Utility Setup Button.



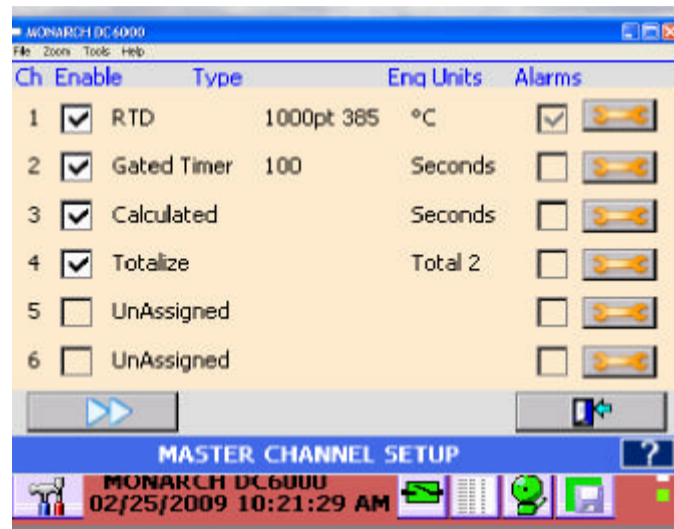
From the Utility Setup Menu touch the Channel setup button.




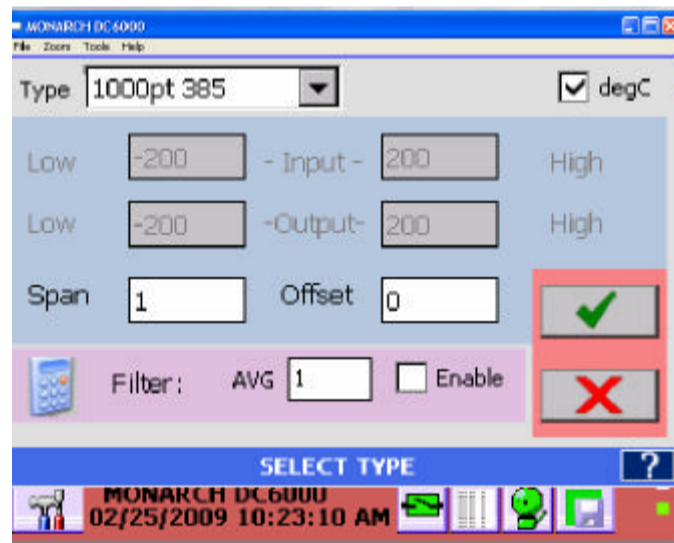


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Select the Input you want to calibrate by touching the corresponding wrench. 



To do a single point calibration, enter the correction factor in the Offset box. The correction factor is the same number as the measured error but the opposite polarity. In other words, if the temperature is actually minus 150.5 degrees Celsius and the Recorder reads minus 151.5 degrees enter plus 1.0 in the offset window.

If a two point calibration is desired, calibrate at the span if possible, and if not, extrapolate the measured error to the end of the range of the sensor and enter it into the Span window.