

## **DAN SYSTEM CALIBRATION PROCEDURE TEMPERATURE**

### **BACKGROUND**

Any single probe connected to a Data Acquisition Networks (DAN) system is able to measure one variable, and for this application the variable being measured is temperature.. While each probe used may be stable, it is wise to make calibration checks regularly. The time between calibration checks is as laid down in your standard operating procedures. To check the calibration of the system, the DAN product has an inbuilt simple procedure as detailed below.

In order to calibrate temperature, an ice slurry method will be used.

### **IMPORTANT - PRELIMINARY**

AT LEAST 40 MINUTES BEFORE COMMENCING THE CALIBRATION PROCEDURE SET THE REPORTING INTERVAL TO 3 MINUTES AND CHECK BEFORE PROCEEDING THAT DATA IS BEING RECEIVED AT 3 MINUTE INTERVALS.

### **PREPARATION - You will need:**

A container (plastic cup or similar) that is sufficiently large to fit over the stainless steel probe to be calibration checked. Each probe protrudes from beneath a plastic case, and a piece of cord attached to the top of the container and able to link over the top of the plastic case will facilitate holding the probe in the ice slurry. Adjust the cord so that when in place, the probe is 1 to 2 cm from the bottom of the container.

An adequate amount (minimum of one cup per probe to be calibrated) of CRUSHED ice (not ice cubes)

Access to cold water

### **PREPARE AND LOCATE THE ICE SLURRY**

Fill the container with crushed ice (ice cubes will not be effective)

Fill the container with cold water to the same level or slightly higher than the crushed ice

Add additional crushed ice, the solution should be thick with ice

Insert the probe into the container and stir the slurry

Hook the cord over the top of the plastic case and leave

Note the time

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## ADJUSTING THE DAN READING

Note the binary reading shown against the unsatisfactory value.

Return to the 'Main Index' and under the tab 'Additional' enter the 'Calibration' mode. Existing calibration detail will be displayed for inputs in use (Maximum is 5).



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Input Calibrations ( 09094222 | Auto )

	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5	INPUT 6
LABEL:	% Full	Freezer Product	Cool Room Product	Cool Room Ambient	NOT IN USE	Label
CALIBRATION POINT 1						
MEASURED VALUE [Y] :	0.0	-50.0	-50.0	-50.0	-30.0	N/A
ANALOG TO DIGITAL [X] :	220	201	200	201	201	N/A
CALIBRATION POINT 2						
MEASURED VALUE [Y] :	100	50.0	50.0	50.0	20.0	N/A
ANALOG TO DIGITAL [X] :	850	998	1001	1000	1000	N/A

Submit

For the input being calibrated, insert into CALIBRATION POINT 1, the actual MEASURED VALUE (0.0) and into the ANALOGUE TO DIGITAL box the binary data as noted from the search of data above.

'Submit' the data and confirm 'OK'. Value is now calibrated.

**Note:** If more than one input is to be calibration checked, they can both be conducted at the same time.