

MULTiLOG Sensor Calibration Procedure

Remonsys Ltd

What you will need.

An independent, calibrated digital thermometer.

A record sheet

For each MULTiLOG board

1. Record location of computer on Calibration record sheet
2. Copy descriptors to Calibration record sheet
3. Download data from MULTiLOG board, save data, (print)
4. Set MULTiLOG time to time on tester's watch
5. Set Reading Time Interval (RTI) to 1 minute (make note of user's previous RTI)
6. Re-start MULTiLOG logging (at "start" of minute by tester's watch)
7. **At each sensor location for this board**
 - Take 1st reading with Digital Thermometer, record temperature and time on record the sheet
 - Wait exactly 1 minute, take 2nd reading
 - Wait exactly 1 minute, take 3rd reading
8. Download MULTiLOG readings and, matching times with those on record sheet, compare manual and logged readings at each location.
9. Allowing tolerance of $\pm 0.3^{\circ}\text{C}$ for chillers and $\pm 1.0^{\circ}\text{C}$ for freezers, replace any sensors outside specification.
10. Recalibrate sensors that have been replaced (as in step 7), download and compare new readings.
11. Restore original RTI and re-start MULTiLOG
12. Repeat from step 1 for other MULTiLOG boards in the same PC

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Calibration Record Sheet:

Date and time:

Personnel:

Location:

No.	Sensor Location:	Time	Temperature °C	Comments
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				