

Digital Max/Min Thermometer Calibration and Reset

Data Sheet

School Name: _____ Study Site: ATM- _____

Observer Names: _____

Calibration

<i>Thermometer Readings</i>						
Reading Number	Date (Year/ Month/Day)	Local Time (Hour:Min)	UT Time (Hour:Min)	Calibration thermometer readings (°C)	Digital air sensor readings (°C)	Digital soil sensor readings (°C)
1						
2						
3						
4						
5						

Time of Reset

Note: The thermometer should be reset only when it is first setup, after the battery is changed, or if the time of local solar noon drifts to more than one hour from your time of reset.

Date: Year _____ Month _____ Day _____

Local time (Hour:Min) _____ Universal time (Hour:Min) _____

Was the reset due to a battery change? _____

Soil Sensor Error Check

Local time (hour/min) _____ Universal time (hour/min) _____

1. Soil probe thermometer from *Soil Temperature Protocol* readings (°C):

a. reading #1(°C): _____

b. reading #2(°C): _____

c. reading #3(°C): _____

d. reading #4(°C): _____

e. reading #5(°C): _____

total of the 5 readings (°C): _____

2. Digital soil sensor readings:

a. reading #1(°C): _____

b. reading #2(°C): _____

c. reading #3(°C): _____

d. reading #4(°C): _____

e. reading #5(°C): _____

total of the 5 readings(°C): _____

3. Average of the 5 soil probe thermometer readings(°C)

[= the total of the five soil probe thermometer readings/5]: _____

4. Average of the 5 soil sensor readings(°C)

[= the total of the five soil sensor readings/5]: _____

5. Soil sensor error (°C) [= #4 – #3]: _____

6. If the absolute value of the soil sensor error (#5) is greater than or equal to 2° C , then dig-out the sensor and recalibrate both the air and soil sensor following the *Digital Multi-Day Max/Min Thermometer Sensor Calibration Field Guide*. If the absolute value of the soil sensor error that you calculate is less than 2° C then leave the soil sensor buried and proceed to recalibrate just the air sensor.