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LOW COST DATA RECORDING SENSORS

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Integrating a Davis tipping bucket with the Odyssey Rain gauge logger.

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Checking the Metric Rain Adapter.

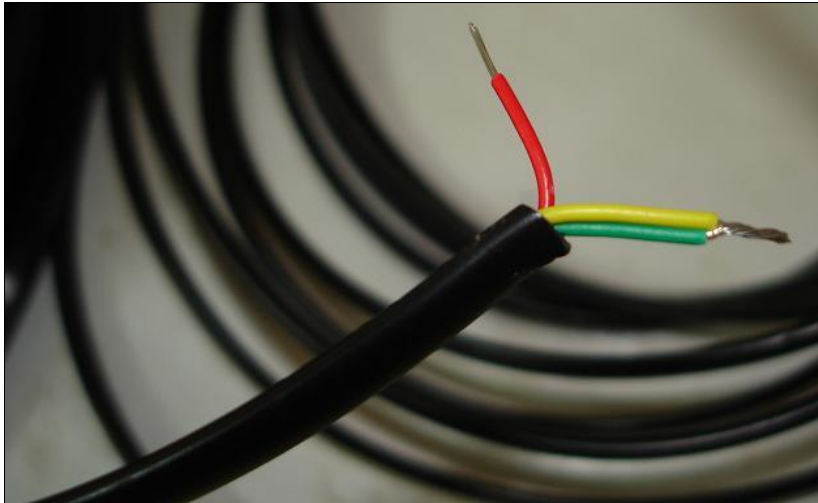
Important: The Odyssey data logger is designed for metric measurement, it is therefore necessary for the tipping bucket to be fitted with a metric rain adapter. The Davis tipping bucket comes supplied with the metric rain adapter fitted as standard but some units manufactured prior to a particular date may still have the imperial adapter as standard. Please refer to the Davis instruction manual to check which is fitted to your device.

If the metric rain adapter has been factory fitted skip to the next step. Otherwise please follow the instructions in the manual to install the metric adapter.



Preparing the rain gauge cable.

1. Cut the RJ11 plug from the end of the cable on the tipping bucket and strip back the insulation so the inner wires are showing.



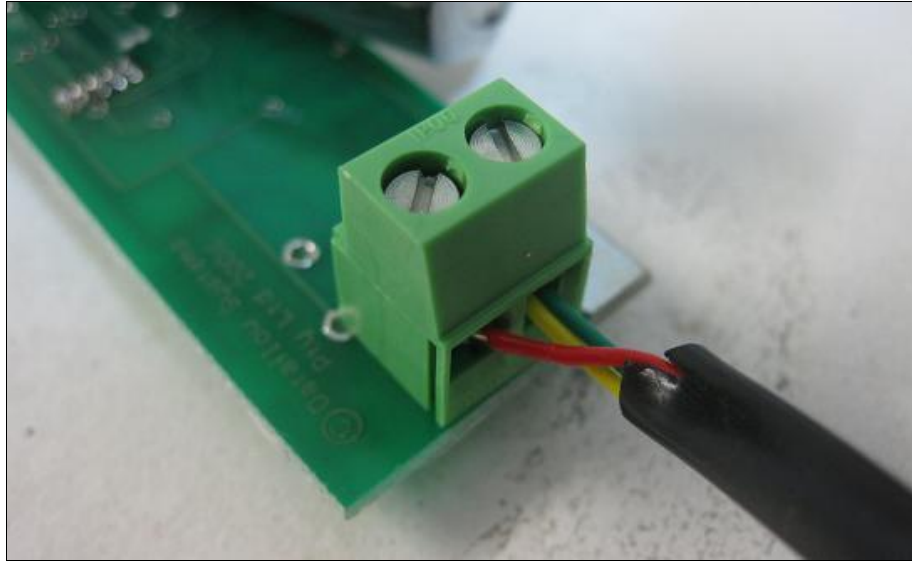
2. Separate the wires into two pair's red/black and green/yellow. The black wire is not essential and can be cut off completely.
3. Twist the green/yellow wires together and, if possible, solder them together as shown above.

Connecting the logger to the rain gauge.

1. Remove the cap from the logger and remove the PCB and battery.
2. Loosen the cable gland on the end of the Odyssey data logger and feed the cable through until it appears at the other end of the logger housing.



3. Using a small screwdriver, attach the wires to the screw terminal connector on the PCB as shown below.



4. Carefully push the PCB back into the housing whilst gently pulling the cable through the other end. Tighten the cable gland.

The Odyssey data logger is now integrated with the tipping bucket.

Testing the logger.

1. Using the Odyssey data logging software – connect the logger to the PC using a serial interface cable.
2. Select 'Probe Trace Mode' from the menu.
3. Select 'Tipping Bucket Rain Gauge' from the sensor types.
4. When the trace mode appears on the screen carefully tip the bucket and ensure that it records the event on the screen.