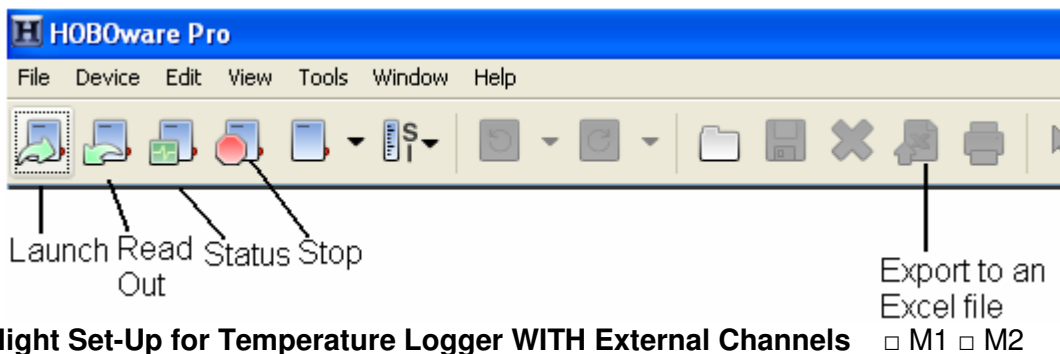


Temperature Probe Checklist for Logger WITH External Channels

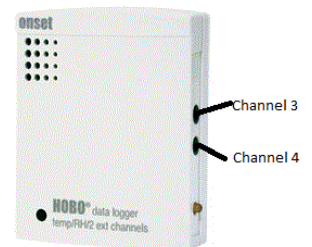
**Inventory:**

- HOBO logger M1 or M2
- TMCx-HD Water/Soil Temperature Sensor (grey cable with silver end)
- Extra batteries for loggers: 3-Volt CR-2032 lithium battery
- Small Philips Screwdriver
- Laptop with HOBOWare installed to launch and collect data off loggers
- USB cable



**Flight Set-Up for Temperature Logger WITH External Channels**

- Launch HOBOWare
- Connect logger to computer with USB cable
- Click “Launch Logger” Icon (forward arrow)
  - Select correct device then “OK”
  - Type a Description: (Flight ID)\_hobo \_\_\_\_\_
  - Plug in Temperature Probe into Side. **Channel** \_\_\_\_\_
  - Channels to Log:
    - 1) Temperature 10K Thermistor
    - 2) Relative Humidity
    - Select 3) OR 4) TMCx-HD (Water/Soil Temperature) \_\_\_\_ (agree with **Channel**)
    - 5) Logger’s Battery Voltage
- Logging interval for launch set at 2 sec
- Check that Logging Duration is at least 4 hrs
- Launch Options:



- Verify system clock is synchronized with GPS time
- Select Launch Now
- Click "Status" of Logger at bottom of Launch Logger window
  - Current Temperature 1) \_\_\_\_\_
  - Current Temperature from external probe \_\_\_\_\_
  - Current Voltage \_\_\_\_\_
  - Click OK
- Click Launch and note time: \_\_\_\_\_
- Disconnect Device
- Look for blinking light to confirm logger is working

**Retrieving data from Logger:**

- Launch HOBOWare
- Connect Logger to computer using USB
  - Stop logger with stop icon (Logger will stop automatically if memory fills)
  - Click readout device; select correct device and okay
  - Save when with window pop up
  - Note Description in Plot set up window
  - Click Plot