

HOBO Shuttle®

The H8 family of dataloggers brings features found in more expensive loggers to an inexpensive model. These loggers feature 8K memory to log 7994 data points plus features such as delayed launch, internal battery check and user replaceable battery. Each H8 logger has an internal temperature sensor on a 4-inch wire, which is mounted inside on the circuit board. Typically the sensor is left inside the case to measure ambient air temperature, but it can be extended outside the case for a shorter time constant (less than one minute response in air and 2 seconds in water).

The H8 Temp/External also has an external input to accommodate an external temperature sensor and lead. It is a true multichannel logger that can record data from the internal and external inputs simultaneously.

HOBO Shuttle makes it possible to offload data from up to 51, 8K loggers for data transport back to your computer so you can leave the loggers in the field. The shuttle automatically relaunches the logger, updates the time clock and checks the battery status. A helpful readout of LEDs shows the status of the HOBO Shuttle, including shuttle full, offloading, change battery, testing, relaunching, communication failure, and successful transfer.

The HOBO Shuttle, H8 Temp and H8 Temp/External all require BoxCar Pro software for launch and readout.

Use & Operation:

The logger or shuttle is set up and launched with the BoxCar Pro software, which lets you set the logging interval (how often a measurement is taken), which then determines the duration (how long the logger can remain in the field). If a delayed launch is desired, the date and time for the logger to activate is selected.

The logger is then placed on location to record temperatures. The H8 will fit inside a submersible case to protect it from water. If an external sensor is to be used, a hole will have to be drilled through the case and caulked to form a watertight seal around the sensor lead.

Product Information Continued:

Using the Shuttle

The HOBO Shuttle, sold separately, is also launched from a computer using BoxCar Pro software. The shuttle is primarily to synchronize the shuttle's clock to the host computer. Once on sight, the shuttle is hooked up to the loggers to be downloaded with the included cable. The

offload button on the shuttle is pressed to begin the process. The LED will blink until the operation is finished. The shuttle memory stores 468K of data, equal to 51 full 8K loggers. If you attempt to offload a logger that has more data than the remaining shuttle memory, the "shuttle full" indicator blinks. The shuttle can hold data from more than 60 loggers if the loggers have not stored a full 8K of data. It recovers all logger information including serial number, launch number and data.

Readout to Host Computer:

Both the HOBO Shuttle and HOBO H8 loggers are downloaded the same way by connecting the cable to the host computer's com port. From the BoxCar Pro menu, either shuttle readout or logger readout is selected. The data is offloaded to the computer, where it can be printed, saved or exported to another program, such as a spreadsheet.

Specifications:

Loggers

Temperature range: -4° to 158° F (-20° to 70° C)
Measurement capacity: 7944 measurements (divided by number of channels used)
Size: 2.4" x 1.9" x 0.8"
Weight: 1 oz.
Battery: User replaceable CR-2032 lithium

Shuttle

Compatibility: H8 family, HOBO Event logger
Data Capacity: 468K (= to 51 full 8K loggers)
Transfer speed: Offloads full 8K logger in 90 sec.
Battery: Two replaceable CR-2032 lithium
Size: 3" x 4" x 0.75"

Ordering Information:

113690 HOBO H8 Temp
113691 HOBO H9 Temp / External
113698 6' external temperature lead
113695 HOBO Shuttle
113641 Clear submersible logger case
113676 Replacement battery—logger (1) or shuttle (2)

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