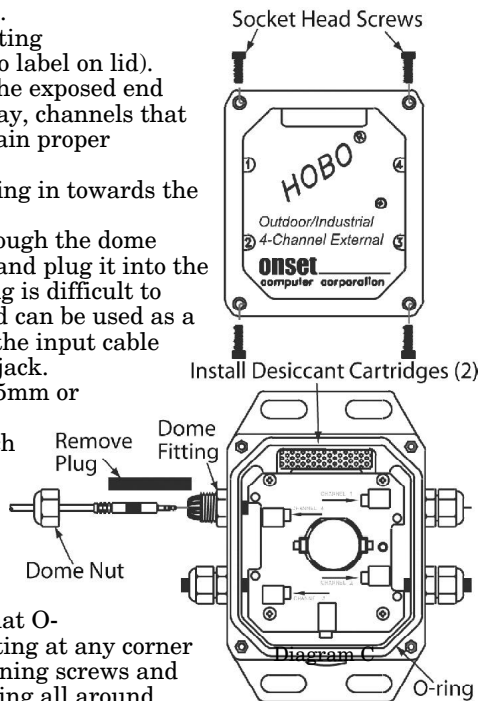
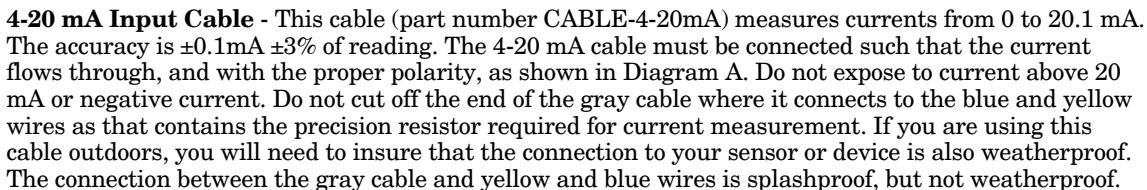




The CE mark identifies this product as complying with all relevant directives in the European Union (EU).

Storage temperature: -40°F to +167°F (-40°C to +75°C)



A starter kit, which includes a PC interface cable and software, is required to operate your logger. Connect the PC interface cable into the 3.5 mm jack on the logger, by removing the dome plug, as shown in Diagram D, using a dime or a flat screwdriver. Connect the other end of the cable into a working serial port of your computer. Install and start the logger's software. Select **Launch...** under



**Logger** on the menu bar and a launch dialog box will be provided. For a complete explanation on installing the software and launching your logger, please refer to the software manual.

**Readout**

Reconnect the HOBO data logger to the interface cable, start the logger software, select **Readout** under **Logger** on the menu bar and the data will be displayed in a graphical or tabular form. For a complete explanation on reading out your logger, please refer to the logger software manual.

**Operation Indication**

HOBO data loggers have a red LED light that blinks while they are logging. The LED blinks brightly at every measurement, and weakly every two seconds if the interval between measurements is longer than two seconds. The blinking LED is located on the front of the logger and is most visible when viewed straight on, as shown in Diagram D.

**Mounting Options**

Included with your HOBO H8 Outdoor/Industrial 4-Channel External data logger are four mounting screws and washers for mounting it to a wooden post. U-bolt clamps (available from Onset; part # U-BOLT-KIT) are preferred for mounting to a 1" pipe (1.3" outside diameter), see Diagram E. U.V. stable tie wraps also work well.

**Replacing Desiccant Cartridges**

The desiccant cartridges should be checked monthly or at each download, by looking through the viewing window. The cartridges are blue when new and will change to pink when they need to be replaced. New cartridges are available from Onset (Part # DESIC-PACK). To replace desiccant cartridges remove the four socket head screws shown in Diagram F and remove the lid. Discard old cartridges and replace with two new (blue) ones. Inspect O-ring to insure that it is clean, lubricated, and properly seated. O-ring lubricant is available from Onset Computer (PART # 85-SEALANT). Reattach lid using four socket head screws starting at any corner and then tighten the opposite corner. Tighten two remaining screws and inspect O-ring through the clear cover to insure proper sealing all around.

**Changing the Battery**

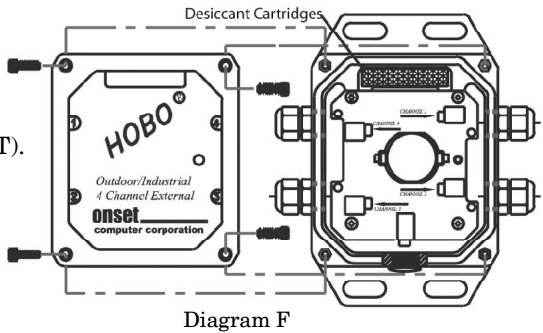
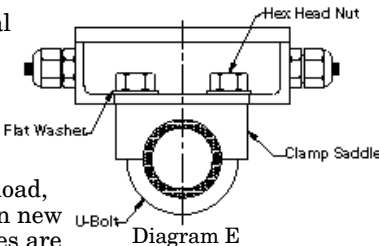
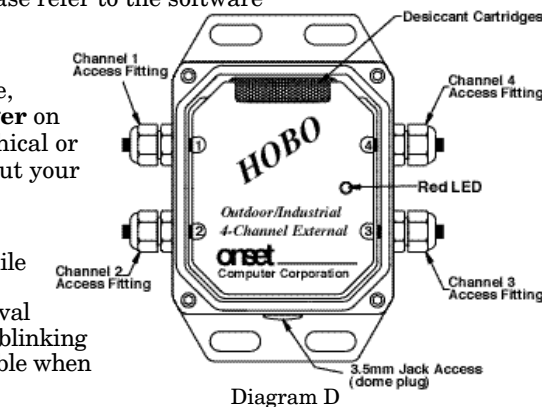
The logger requires one 3-Volt CR-2032 lithium battery. Expected battery life varies based on the temperature and the frequency at which the logger is recording data (the logging interval). A new battery will typically last one year with logging intervals greater than one minute. Deployments in extremely cold or hot temperatures or logging intervals faster than one minute may significantly reduce battery life. Onset recommends that you install a fresh battery before every deployment if temperatures below 0°C (32°F) are expected. Data stored in the HOBO will not be lost when removing the battery. To replace the battery, disconnect the logger from the computer. Use the Allen wrench to remove the four socket head screws on the logger's cover, then remove the cover. Carefully insert a thin screwdriver blade between the edge of the battery and the battery contact that is farther from the red LED. Gently pry up the edge of the battery, popping it out of the holder. Slide the new battery, positive side up, under the two small tabs of the contact that is closer to the red LED. Press down on the battery until it snaps into place. The logger's LED will blink several times. When the new battery is secure, close the logger's case as described above.

**⚠ WARNING:** Do not cut open, incinerate, heat above 85°C (185°F), or recharge the lithium battery. The battery may explode if the logger is exposed to extreme heat or conditions that could damage or destroy the battery case. Do not dispose of the logger or battery in fire. Do not expose the contents of the battery to water. Dispose of the battery according to local regulations for lithium batteries.

If you will not be using the logger right away bring the logger to the launch window of BoxCar Pro or BoxCar and then select cancel or you can offload the data. This action puts the logger into its low power state to conserve your battery power.

**Replacement Part Kit Available**

A replacement part kit is available from Onset (Part # H8x4-BK) which includes a dome plug, desiccant, O-ring, O-ring lube, socket head screws, Allen wrench, access fitting grommets and access fitting plugs. If there are any signs on the rubber parts of cracking or damage they should be replaced.



**Service and Support**

HOBO® products are easy to use and reliable. In the unlikely event that you have a problem with the hardware or software, please read the following.

**Who do I contact?**

Contact the company that you bought the loggers from: Onset Computer Corporation or an Onset Authorized Dealer.

**Before calling**, you can evaluate and often solve your problem if you try the following:

- 1. Read this manual and the ReadMe file on the software disk. It may only take a few moments to get the answers you need.
- 2. Write down the events that led to the problem. Have you changed anything in your computer recently? Are you doing anything differently?

**When contacting Onset Computer Corporation**, please indicate that you need Technical Support for HOBO® products.

- Be prepared to:
- 1. Provide the product number which is found on the bottom of the logger, the software version and serial number if present on the diskette.
  - 2. Provide details on the hardware and software configuration of your computer including: manufacturer, model number, peripherals, and version of operating system.
  - 3. Completely describe the problem or question. The more information you provide, the faster and more accurately we will be able to respond.
- NOTE: Onset allows one technical support contact for each software license.

**Onset Technical Support**  
Onset Computer Corporation  
470 MacArthur Blvd., Bourne, MA 02532  
Mailing: PO Box 3450,  
Pocasset, MA 02559-3450  
Phone: (508) 759-9500  
Fax: (508) 759-9100  
e-mail: loggerhelp@onsetcomp.com  
[www.onsetcomp.com](http://www.onsetcomp.com)

**Warranty**

The HOBO® products are warranted to be free from defects in material and workmanship for a period of one year from the date of original purchase. During the warranty period Onset will, at its option, either repair or replace products that prove to be defective. This warranty is void if the Onset products have been damaged by customer error or negligence or if there has been an unauthorized modification.

**Returning Products to Onset**

**Direct all warranty claims to place of purchase.** Before returning a failed unit, you must obtain a Return Merchandise Authorization (RMA) number from Onset. You must provide proof that you purchased the Onset product(s) directly from Onset (purchase order number or Onset invoice number). Onset will issue an RMA number that is valid for 30 days. You must ship the product(s), properly packaged against further damage, to Onset (at your expense) with the RMA number marked clearly on the outside of the package. Onset is not responsible for any package that is returned without a valid RMA number or for the loss of the package by any shipping company. Loggers must be clean and free of any toxins before they are sent back to Onset or they may be returned to you.

**Repair Policy**

Products that are returned after the warranty period or that are damaged by the customer as specified in the warranty provisions can be returned to Onset with a valid RMA number for evaluation.

Please contact Onset for more information and prices on:

**ASAP Repair Policy**

Onset will expedite the repair of a returned product.

**Data-back™ Service**

HOBO® data loggers store data in nonvolatile EEPROM memory. Onset will, if possible, recover your data to a disk.

**Tune Up™ Service**

Onset will examine and retest any HOBO® data logger.