



HOBO[®] H22-001 Data Logger

H22 Energy Data Logger

Monitor energy and industrial equipment with this 15-channel data logger (Part # H22-001). With multiple channels, energy and facility managers can quickly and easily detect and address a variety of issues relating to HVAC, machinery, and other systems. The HOBO H22-001 Energy Data Logger is modular and more economic than its alternatives because a toolbox full of data loggers is not necessary.

Deploy this product with a variety of pre-defined plug-and-play smart sensors to create a robust monitoring system. Compatible with HOBOWare[®] software, researchers can conduct effective data analysis in minutes.



Key Advantages:

- Onset's most flexible data logger records up to 15 channels of over a dozen measurements
- Provides 12v excitation for third-party sensors
- Pre-configured smart sensors get you started fast
- Signal conditioning modules retain configurations until you change them, providing plug-and-play convenience for commonly used sensors
- Flexible power options include battery operation for AC power adapter

HOBO H22-001 Data Logger Specifications

Operating range:

-20° to 50°C (-4° to 122°F) with alkaline batteries

-40° to 60°C (-40° to 140°F) with lithium batteries

Sensor inputs: Three FlexSmart multi-channel modules and up to 6 Smart Sensors (which may have multiple parameters/channels)

Sensor connectors: Six RJ-12 Smart Sensor jacks plus 3 FlexSmart module slots

Communication: RS-232 via 3.5 mm serial port or/and 9-pin D-Sub connector

Dimensions: 15.6 cm x 8.4 cm x 4.6 cm (6.13" x 3.31" x 1.81")

Weight: 435 g (15.23 oz) with batteries 238 g (8.33 oz) without batteries

Memory: 512K nonvolatile flash data storage

Memory modes: Stop when full; wrap when full

Operational indicators: Six indicators provide logging and sensor network status

Logging interval: One second to 18 hours, user-specified interval (2-second minimum for two-channel S-FS-TRMSA operation)

Sensor excitation: 12 V DC at 200 mA total, with user-programmable warmup time on a per-channel basis

Battery life: One year typical use (up to 75 mA excitation with 10-minute or longer logging Interval and 1-second warmup time)

Battery type: Eight standard AA alkaline batteries included (for operating conditions -20°C/-4°F to 50°C/122°F); optional AA lithium batteries available for operating conditions of -40° to 60°C (-40° to 140°F).

External power: Supports optional 13.6 V DC regulated AC Wall Adapter Connector. Internal batteries may remain installed. Alternatively, an automotive battery or 9-12 V DC regulated Wall Adapter may be used, but it is recommended to remove the internal batteries since they will discharge to the level of the external supply.

Time accuracy: 0 to 2 seconds for the first data point and ±5 seconds per week at 25°C (77°F)

Logging mode: Immediate, timed delay, or trigger (button-push) start options; supports sampling intervals for some sensors

Data communication: Current readings while logging; read out while logging; read out when stopped

This product meets CE specification EN61326 criterion C for ESD, criterion C for Radiated Immunity, criterion B for Fast Transient, criterion A for Conducted Immunity, and criterion A for Power Frequency Magnetic Fields. To minimize measurement errors due to ambient RF, use the shortest possible probe sensor cable length.