



- 15 channel Data Logger
- 'Snap-in' Signal Conditioners
- 'Smart' sensors require no configuration
- Logs:
  - Temperature – Relative Humidity – TRMS AC Current & Voltage – kWh – Gauge Pressure – Differential Air Pressure – Carbon Dioxide

## HOBO Energy Logger Pro

**New** HOBO Energy Logger Pro is a modular, reconfigurable data logging system for Energy and Industrial monitoring applications.

The 15 Channel system enables energy and facility management professionals to quickly and easily solve a broad range of monitoring applications without having to purchase a toolbox full of loggers.

Innovative, snap-in FlexSmart signal conditioning modules convert signals from almost any type of sensor.

Smart sensors plug directly into RJ-12 jacks on the front of the HOBO FlexSmart Logger. Sensors are automatically identified by the logger at the time of system launch – no configuration or other connections are required.

Powerful HOBOWare software makes set-up and deployment fast and easy.

### Features:

- 1 to 15 data channels
- Extensive sensor compatibility
- 6 off RJ-12 Smart Sensor input jacks for plug-and-play Temperature, Humidity, and other environmental inputs
- 3 off FlexSmart module slots
- 2-channel FlexSmart TRMS module (optional) for high accuracy AC Current and Voltage measurement
- 2-channel FlexSmart Analog module (optional) provides  $\pm 0.25\%$  FS accuracy (from 50mV to full scale) for common 4-20mA and 0-20VDC sensor inputs
- Automatic sensor recognition – FlexSmart modules retain configuration until changed, providing plug-and play convenience for commonly used sensors
- 12VDC excitation power provided by logger
- Intuitive HOBOWare software supports point-and-click system set-up, data download, and data plotting/analysis

# HOBO Energy Logger Pro

Specification continued

## Features (continued):

- Large 512K non-volatile logger memory enables long-term deployments
- Memory Modes: Stop when full, Wrap around when full
- 6 off LED Operational Indicators provide logging and communication status
- 1 second to 18 hours, user specified logging intervals
- Immediate, Push-button, or Delayed-start logger start modes
- Flexible battery/power options include internal batteries, external automotive battery, or AC power adapter  
Internal supply: 8 off AA batteries offer battery life of 1 year typical, with 1 sec warm-up time and 10 minute logging intervals.  
External: Optional AC adapter  
Compatible with standard automotive battery
- Time Accuracy: 0 to 2 seconds for first data point and  $\pm 5$  seconds per week at 25°C
- Operating Range: -20°C to +50°C
- Communication: Serial via 3.5mm jack
- Offload Speed: 4 minutes for full 512K offload
- Logger Size (with modules): 154 x 94 x 51mm
- Logger Weight (without modules): 418.7 gm

Order Information	Part No
HOBO Energy Logger Pro (without Modules and Sensors)	H22-001
Flexsmart Analog Module (2 channels)	S-FS-CVIA
FlexSmart TRMS Module (2 channels)	S-FS-TRMSA
<b>FlexSmart TRMS Module Sensors:</b>	
<b>Magnelab AC Current</b>	
0-20 AMP split-core AC current transformer	T-MAG-SCT-020
0-50 AMP split-core AC current transformer	T-MAG-SCT-050
0-100 AMP split-core AC current transformer	T-MAG-SCT-100
0-200 AMP split-core AC current transformer	T-MAG-SCT-200
0-600 AMP split-core AC current transformer	T-MAG-SCT-600
<b>Magnelab AC Voltage</b>	
150 Volt AC Potential Transformer	T-MAG-SPT-150
300 Volt AC Potential Transformer	T-MAG-SPT-300
600 Volt AC Potential Transformer	T-MAG-SPT-600
<b>FlexSmart Analog Module Sensors:</b>	
Kilowatt Power Transducer	
Veris 480 V, 100 Amp Kilowatt Transducer	T-VER-8044-100

D141-1/2  
1106

# HOBO Energy Logger Pro

Specification continued

Order Information	Part No
<b>Ashcroft Gauge Pressure Sensor</b>	
100 psig	T-ASH-G2-100
200 psig	T-ASH-G2-200
500 psig	T-ASH-G2-500
<b>Setra Differential Air Pressure</b>	
0 – 0.25" WC	T-SET-265-R25
0 – 1" WC	T-SET-265-001
0 – 2.5" WC	T-SET-265-2R5
0 – 5" WC	T-SET-265-005
0 – 10" WC	T-SET-265-010
<b>Vaisala Ductmount RH/Temp Transmitter</b>	
	T-VAI-HMD-4OY
<b>Telaire 7001 Carbon Dioxide/Temp Monitor</b>	
	TEL-7001
CO2 and Temp output cable to FlexSmart Analog Module	CABLE-2070
<b>ConLab 90-150 Volt AC Transmitter</b>	
	T-CON-ACT-150
<b>ConLab 180-300 Volt AC Transmitter</b>	
	T-CON-ACT-300
<b>WattNode Kilowatt Hour Transducer</b> – requires Magnelab CTs (above) and Pulse Input Adapter S-UCA-M006 (below)	
208/240 VAC 3-phase Wye-connection KWh Transducer	T-WNA-3Y-208
480 VAC 3-phase Wye-connection KWh Transducer	T-WNA-3Y-480
208/240 VAC 3-phase Delta-connection KWh Transducer	T-WNA-3D-240
480 VAC 3-phase Delta-connection KWh Transducer	T-WNA-3D-480
<b>Veris kilowatt Hour Transducer</b> – requires Pulse Input Adapter S-UCA-M006 (below)	
1-phase 300Amp	T-VER-8051-300
3-phase 800Amp	T-VER-8053-800
<b>FlexSmart Smart Sensors:</b>	
<b>Temperature/RH</b>	
Temperature/RH Sensor with 2m cable	S-THA-M002
Temperature/RH Sensor with 6m cable	S-THA-M006
Temperature/RH Sensor with 17m cable	S-THA-M0017
<b>8-bit Temperature</b>	
Temperature Sensor with 2m cable	S-TMA-M002
Temperature Sensor with 6m cable	S-TMA-M006
Temperature Sensor with 17m cable	S-TMA-M0017

D141-1/3  
1106

# HOBO Energy Logger Pro

Specification continued

Order Information	Part No
<b>12-bit Temperature</b>	
Temperature Sensor with 2m cable	S-TMB-M002
Temperature Sensor with 6m cable	S-TMB-M006
Temperature Sensor with 17m cable	S-TMB-M0017
<b>Solar Radiation Shield</b>	
<b>M-RSA</b>	
<b>Pulse Input Adapter</b>	
Electronic Switch Version	S-UCA-M006
<b>Smart Sensor Extension Cables</b> (total cable length of all cables should not exceed 100 metres):	
5m length	S-EXT-M005
10m length	S-EXT-M010
25m length	S-EXT-M025
1-to-2 Sensor Adapter (when used with Smart Extension Cables, this allows a single smart sensor input to branch to two smart sensors)	S-Adapt
<b>Software &amp; Communications:</b>	
Note: HOBOWare software (version 2.1.1 or greater) and a Serial Interface Cable are required to operate the HOBO FlexSmart Logger	
HOBOWare Software (Windows)	BHW-PC
HOBOWare Software (MAC)	BHW-MAC
Serial Interface Cable (required)	CABLE-PC-3.5
USB-SERIAL Adapter	CABLE-USB232
HOBO U-Shuttle (optional)	U-DT-1
<b>Accessories:</b>	
Mount Feet Kit	A-H22-Mount-1
DIN Mounting Feet (requires A-H22-Mount-1 Kit)	A-H22-DINMOUNT-1
AC Power Adapter	P-AC-1
H22 Spares Kit (includes screwdriver, rubber bumper mounts, and module connector covers)	A-H22-SPARES-1
FlexSmart TRMS Module spares kit (includes 4-pin screw terminals (4) and screwdriver)	A-FS-TRMSA-4P-1
FlexSmart Analog Module spares kit (includes 7-pin screw terminals (4) and screwdriver)	A-FS-CVIA-7P-1
Lithium Batteries 4 Pack (2 packs required)	HWSB-LI

D141-1/4  
1106