

2026 LOWER-COST ENVIRONMENTAL DATALOGGER QUICK COMPARISON CHART

Model	Range	Accuracy & Resolution	Wireless/Bluetooth /USB	Unit Price*‡	Software	Notes
EasyLog EL-USB-2 Lascar	T: -35°C to 80°C RH: 0 to 100%	T: ±0.45°C from 5 to 60°C, 0.5°C res. RH: ±3% from 20 to 80%, 0.5% res.	USB (direct to computer)	\$103.92	<i>EasyLog</i> Free download	Programmable alarm functions, 3 year battery life
LogTag HAXO-8 Temp and Humidity Recorder Dataq Instruments	T: -40°C to 85°C RH: 0 to 100%	T: ±0.5°C from 0 to 50°C, 0.1°C res. RH: ±3% from 20-80% (at 25°C), 0.1% res.	USB via docking station cradle (\$49) WiFi via cradle (\$100 to \$110)	\$75 (not with cradle)	<i>LogTag Analyzer</i> Free download	Provides alert function; 2-3 year battery life; requires cradle to function
LogTag UHADO-16 Humidity & Temperature Logger with Display MicroDag	T: -30°C to 70°C RH: 0 to 100%	T: ±0.6°C from -40 to 0°C; ±0.3°C from 0 to 50°C; ±0.5°C from 50 to 70°C, 0.1°C res. RH: ±4% from 0-20%; ±3% from 20-80%; ±4% for 80-100%, 0.1% res.	USB via docking station cradle (\$49) WiFi via cradle (\$100 to \$110)	\$105	<i>LogTag Analyzer</i> Free download and <i>LogTag Online</i>	Customizable alarms

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HOBO Temp/RH Data Logger MX1101 Onset	T: -20°C to 70°C RH: 1% to 90%	T: $\pm 0.21^{\circ}\text{C}$ from 0 to 50°C, 0.024°C res. RH: $\pm 2.0\%$ from 20-80% (at 25°C) 0.01% res.	Bluetooth	\$165	<i>HOBOnnect App</i> for iOS/Android Free download Remote access only available via the LI-COR Cloud (formerly HOBOLink) \$25 download	Direct data access within 100-foot range. LI-COR Cloud required for remote access
HOBO 3.5% Temp/RH Data Logger UX100-003 Onset	T: -20°C to 70°C RH: 15% to 95%	T: $\pm 0.21^{\circ}\text{C}$ from 0 to 50°C, 0.024°C res. RH: $\pm 3.5\%$ from 25-85% (at 25°C), 0.07% res.	USB cable (not included in unit price, but available with HOBOWare Pro USB Drive software package)	\$145	<i>HOBOWare Pro</i> \$75 download <i>HOBOWare Pro USB Drive</i> \$99 download	Visual high & low alarm thresholds
log-EZ TR32B T&D	T: 0°C to 50°C RH: 10% to 90%	T: $\pm 0.5^{\circ}\text{C}$, 0.1°C res. RH: $\pm 5\%$ (at 25°C), 1% res.	Bluetooth via the T&D Thermo App. Data accessed remotely with T&D Web Storage Service (free to download)	\$153	T&D Web Storage Service Free download T&D Graph Free download	Variable time sampling intervals
Portable Temperature/Humidity Data Logger with USB Interface OM-141 DwyerOmega	T: -20°C to 70°C RH: 0% to 100%	T: $\pm 1.0^{\circ}\text{C}$ from -10-40°C. $\pm 2.0^{\circ}\text{C}$ elsewhere in range, 0.1°C res. RH: $\pm 3\%$ from 20-80% $\pm 3.5\%$ elsewhere in range, 0.001% res.	USB (direct to computer)	\$122.05	<i>ELusb Software</i> Included on disc	Alarm included in software, battery life ~1 year (replaceable, not rechargeable)
Tinytag Ultra 2 TGU 4500 Gemini	T: -25°C to 85°C RH: 0% to 95%	T: $\pm 0.9^{\circ}\text{C}$ from -20 - 85°C, 0.01°C res. RH: $\pm 3.0\%$, 0.3% res.	3-pin plug to USB cable	\$165	<i>Tinytag Explorer</i>	2 fully programmable alarms, battery life ~1 year (replaceable, not rechargeable)

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Track-It RH/Temp Data Logger 5396-0203 Monarch Instrument	T: -25°C to 60°C RH: 0% to 100% (standard battery)	T: $\pm 0.5^{\circ}\text{C}$ from -20-60°C (standard battery), 0.01°C res. RH: $\pm 3\%$ from 0-90%, 0.01% res.	USB (direct to computer)	\$121- \$257	<i>Track-It</i> and <i>Track-It Transport Android App</i> Free download	2 alarms, long life battery option available. NIST certificate available.
Track-It RH/Temp Data Logger with Display 5396-0201 Monarch Instrument	T: -25°C to 60°C RH: 0% to 100% (standard battery)	T: $\pm 0.5^{\circ}\text{C}$ from -20-60°C (standard battery), 0.01°C res. RH: $\pm 3\%$ from 0-90%, 0.01% res.	USB (direct to computer)	\$144 - \$287	<i>Track-It</i> and <i>Track-It Transport Android App</i> Free download	2 alarms, long life battery available. NIST certificate available.
Elitech Bluetooth Datalogger GSP-6Pro-TE/THE Elitech	T: -40°C to 85°C RH: 0% to 100%	T: $\pm 0.3^{\circ}\text{C}$ from -20-40°C, $\pm 0.5^{\circ}\text{C}$ for all others, 0.1°C res. RH: $\pm 3\%$ for 20-80%, 0.1% res.	USB or Bluetooth	\$41.99	<i>Elitech Log Software</i> or <i>Elitech Cold App</i>	Audio and visual alarm capabilities, must be in close range to download data, originally designed for cold storage

Note: This chart is for reference only. CCAHA does not endorse or recommend any of the above models.

*Price in US Dollars before shipping and tax as of July 2026 from online retailers.

‡All dataloggers should be calibrated routinely per manufacturer's instructions, which may incur an additional fee. See manufacturer's website for information.

Further reading

National Park Service, Comparing Temperature and Relative Humidity Dataloggers for Museum Monitoring.

www.nps.gov/museum/publications/conservoogram/03-03.pdf

Image Permanence Institute, Datalogger Comparison.

www.imagepermanenceinstitute.org/environmental/datalogger-comparison