

























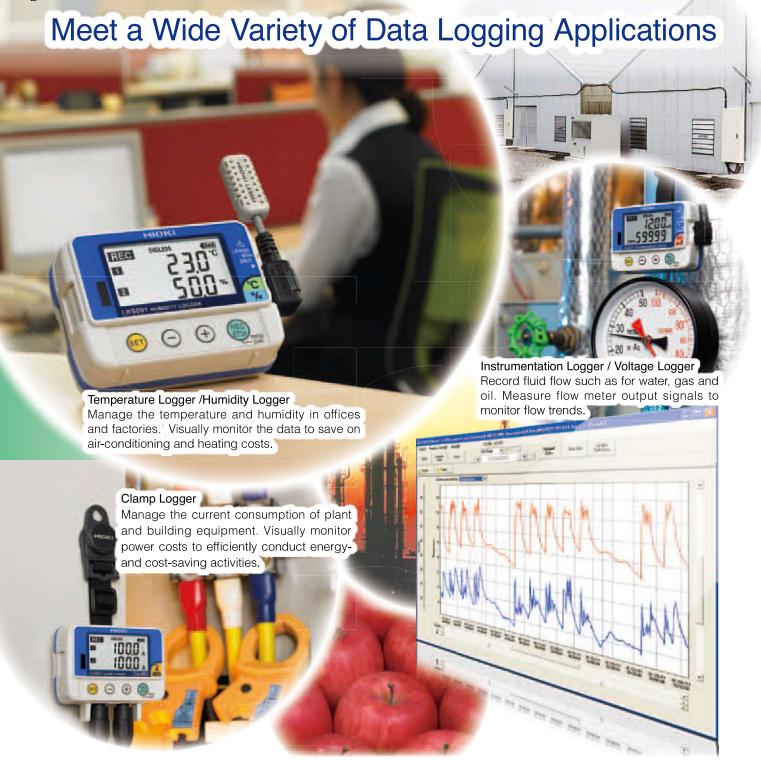






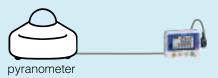
Complete Line of Easy-to-Use **Compact Loggers with Expanded Memory**

The new HIOKI compact data logger series easily records temperature, voltage, current, and instrumentation signals over long periods. Carried over from its highly reputed predecessor, this series includes features and functions such as 7 times the recording capacity of former models, data import during recording, continuous measurement even during battery replacement, and intuitive PC software. Flexible and easy-to-use at single and multiple locations, the new HIOKI compact data logger series is ideal for any application that requires simple set-up but long-term, reliable recording capabilities.



Use as a Voltage Logger to record pyranometer output for evaluating insulation.





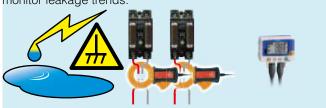
Voltage logger has a Preheat function

Use as a Temperature Logger to record warehouse temperatures for visually monitoring temperature changes of products and goods.





Use as a Clamp Logger and leakage sensor to record and



Use as an Instrumentation Logger to record pressure sensor output and monitor fluctuations in air or oil pressure.



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Easy operation in just I steps!



Install a Data Logger, set an interval, and start measuring.

start recording

Easy to start recording



Unlimited installation capabilities





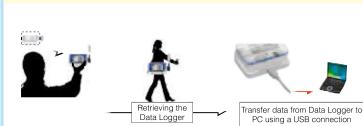




(included, except for Model LR5051)







Grab the Data Logger from the worksite and connect to a PC.



Communication Adapter

or

Data Collector



Data Collector LR5092-20



Using the Data Collector's internal memory, import data from up to 16 Data Loggers installed on site.*







Transfer data from Data Logger to PC using a USB connection

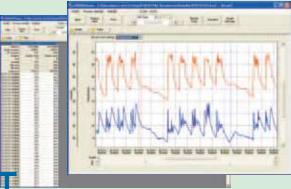
* Data for up to 16 channels can be stored. Combine up to 16 single-channel Data Loggers (Models LR5011, LR5031, LR5041, LR5042, and LR5043), or up to eight 2-channel Data Loggers (Models LR5001, and LR5051).

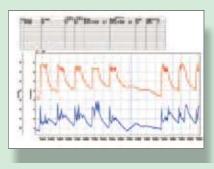
Using an optional SD Memory Card, the amount of data that can be imported is practically limitless.



View data graphically and easily print using the bundled software.







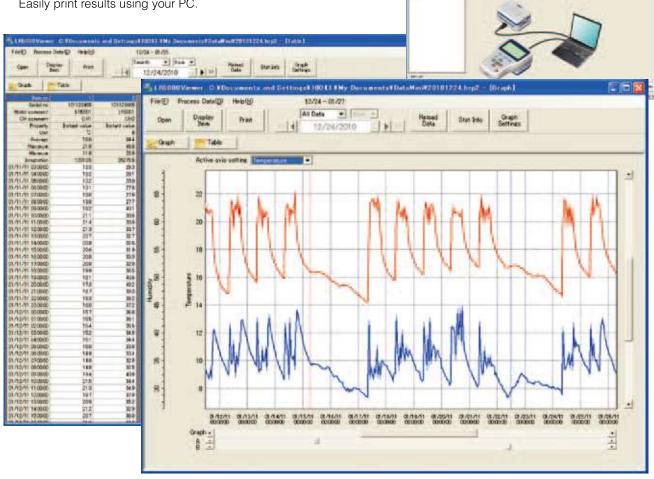
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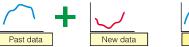
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Bundled Software Ensures Smooth and Easy Data Analysis

■ Import data to a PC and create graphs Use the LR5000 Utility program to import Data Logger data to a PC to make graphs and analyze data further. Easily print results using your PC.



- Show specific values using the cursor function
 Use the A/B cursors to select any location on a graph and display its value. The PC software can also calculate maximum, minimum, and average values between A and B cursors.
- Simple file aggregation and management Transferred data can be combined with data previously transferred (from the same Data Logger unit) into one data on the PC.





Display data from former Data Logger models The PC application also supports data collected from the HIOKI 36XX Series Data Loggers.

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LR5000 Utility Specifications					
Configurating Data Logger	Import/export Data Logger settings (LR5091 or LR5092-20 required) Settings sent to each LR5000 logger are also saved to the PC.				
Graph display	•Graphically display data for up to 16 channels •Select colors and display/hide any channel and graph •Copy graph images to clipboard •Display statistical data (maximum, minimum and average) •Scaling function				

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Print function	Print graphs Print statistical data.	
Data processing	Scaling Power calculation Energy cost calculation Operating ratio calculation Integration Dew point temperature Calculate between channels	
Operating environment	OS:Windows XP (SP2 or later) Windows Vista (SP1 or later) / Windows 7 CPU: 1GHz or more Memory: 512MB or more Interface: USB Free space in hard disk:30MB or more	



Communication Adapter and Data Collector Specifications (Product guaranteed for one year)					
Physical appearance	CE	CE SE			
Model	Communication Adapter LR5091	Data Collector LR5092-20			
Features	•Transfer data from a Data logger to a PC •Transfer Data Logger configurations or clock settings from a PC to the Data Logger	*Collect recorded data from the Data Logger to internal memory or SD card *View collected data in a graph *Transfer Data Logger configurations or clock settings from internal memory or SD card to the Data Logger *Transfer data from a Data Logger to a PC *Transfer Data Logger configurations or clock settings from a PC to the Data Logger			
Interface with Data Logger	Infrared optical communications				
Interface with PC	USB2.0, Full Speed, Series Mini B Receptacle				
Clock functions	-	Auto calender, auto leap year			
Display items	-	Dot-matrix LCD (128 × 64 dots) Data Logger configurations (Interval, Start/Stop method, Recording mode, Scaling, Alarm, Power-saving mode, Clock, Range) Collected data (Record list, Maximum data, Minimum data, Average, Graph, Value)			
Internal memory capacity of data	-	60,000 data elements ×16ch (instantaneous value mode) 15,000 data elements ×16ch (statistical value mode)			
Removable storage media	-	SD Card (SDHC, Max 32GB) Save data and configurations			
Operating environment	Indoors				
Power supply	DC 5 V (USB bus power) Maximum rated power 0.5 VA	DC 3 V (LR6 (AA) Alkaline battery 1.5 V×2) or DC 5 V (USB bus power) Maximum rated power 1 VA			
Battery life	-	Approx. 12 hours or 500 times of data collection			
Operating temperature and humidity	0°C (32°F) to 40°C (104°F), 80% RH or less (non-condensating)				
Dimensions & Mass	Approx. 83 mm (3.27 in)W × 61 mm (2.40 in)H × 19mm (0.75 in)D, 43 g (1.5 oz)	91 mm (3.58 in)W × 141 mm (5.55 in)H × 31 mm (1.22 in)D, 215 g (7.6 oz) (excluding batteries)			
Accessories	USB cable (1 m)×1, CD (Application software "LR5000 Utility") × 1	Instruction manual ×1, Operation manual×1, LR6 (AA) Alkaline battery 1.5V×2, USB cable (1 m)×1, CD (Application software "LR5000 Utility") × 1			

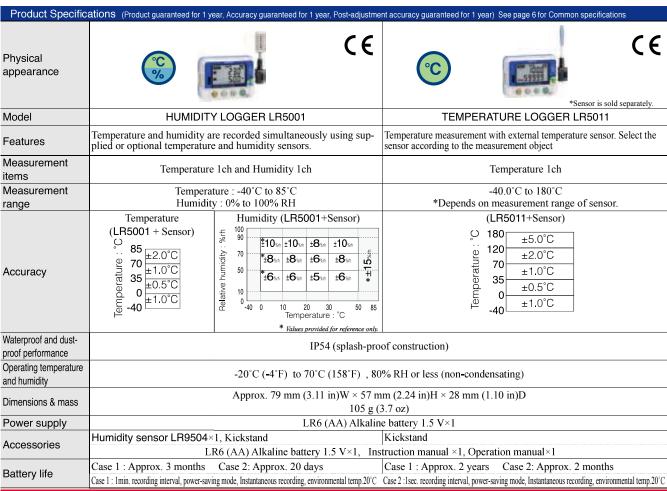
LR5092-20 Option



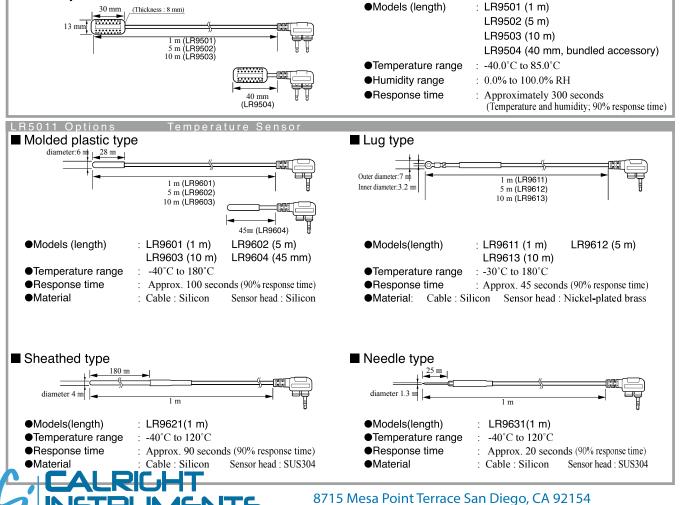
SD Memory Card (2GB) Z4001

LR5000 Series Common specifications (Product guaranteed for one year. Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year)					
Recording interval	1/ 2/ 5/ 10/ 15/ 20/ 30 seconds 1/ 2/ 5/ 10/ 15/ 20/ 30/ 60 minutes	Storage capacity	Instantaneous value mode 60,000 data sets per channel Statistical value mode 15,000 data sets per channel Note Customers using the previous Model 3636-20 Clamp Logger should note that the LR5051 can only record 15,000 points of average data, vs. 32,000 data points available in the 3636-20.		
Recording meth-	One time recording Stop recording when the memory capacity is full.	Display items	Measured value, Interval configration, Date, Time, Alarm, Remaining battery power, Number of data, Maximum data, Minimum data		
ods	Endless recording Continue recording even when the memory capacity is full. (old data is overwritten.)	Recording start / stop	Recording start Manual start Timer start		
Recording modes	Instantaneous recording Instantaneous values are recorded at every recording interval. Statistical value recording		Recording stop Manual stop Timer stop When the memory capacity is full (One time recording)		
	Measure at one second intervals, and record the instantaneous, maximum,	Data backup	Data from the last recording session is always backed up.		
	minimum, and average values within every recording interval.		Back up recorded data and configuration when battery is dead.		
LR5000 Seri	es common options	Interface	Infrared optical communications with LR5091, LR5092-20		
Magnetic Strap Z5004 Wall-mounted Holder LR9901 Not compatible with Model LR5051		Power supply	During battery replacement, recording and clock operations are preserved for about 30 seconds. (Recording operation continues if the battery is replaced within about 30 seconds.) Note. With the LB5001, recording is interrupted during battery replacement if the		
CALRICHT			battery is very weak. After batteries are replaced, recording resumes automatically. Previously recorded data is not lost during battery replacement.		
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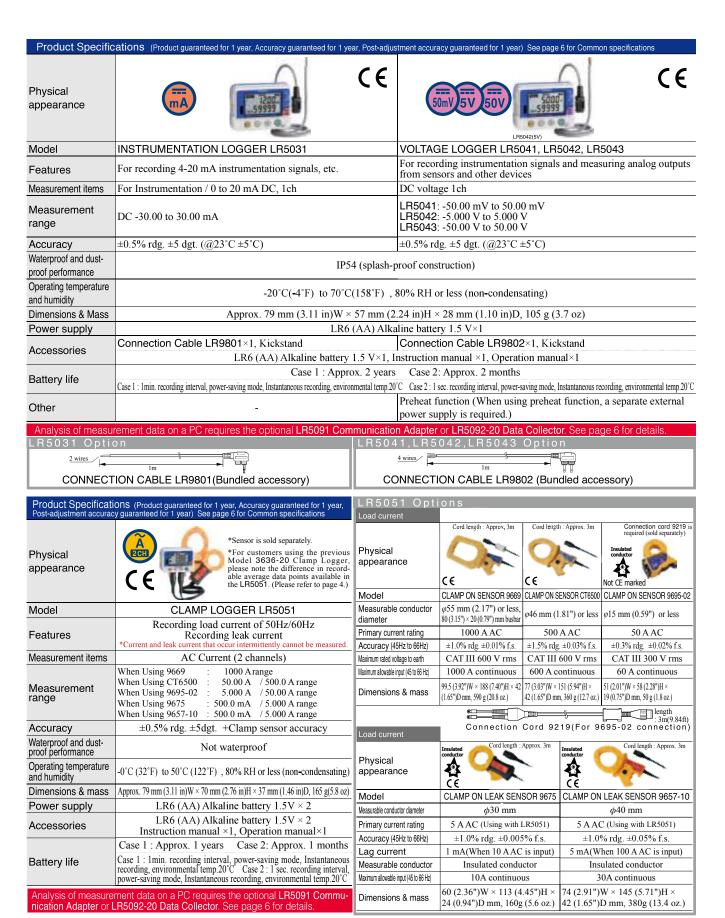
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Analysis of measurement data on a PC requires the optional LR5091 Communication Adapter or LR5092-20 Data Collector. See page 6 for details. (Reference) When the recording interval is set to 10 minutes, the LR5001 Temperature and Humidity Logger can measure for about one year between battery replacements.



■ Humidity Sensor



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