



## 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

# Meet a Wide Variety of Data Logging Applications



## Temperature Logger /Humidity Logger

Manage the temperature and humidity in offices and factories. Visually monitor the data to save on air-conditioning and heating costs.



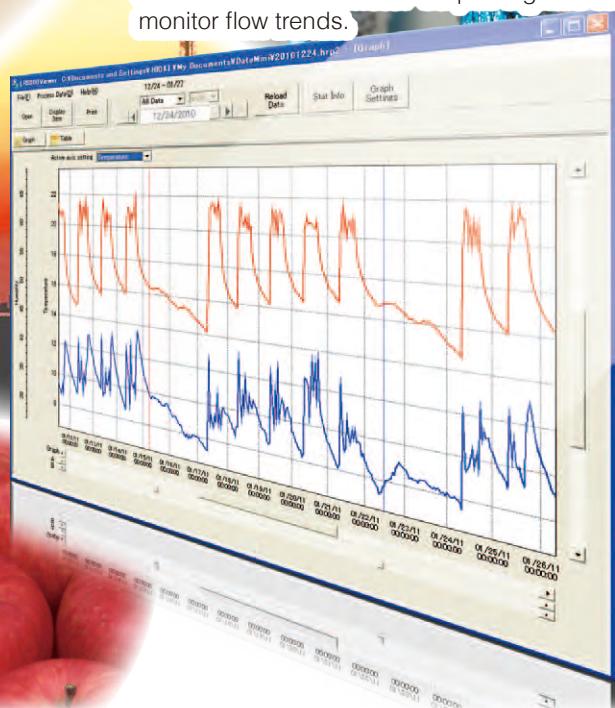
## Instrumentation Logger / Voltage Logger

Record fluid flow such as for water, gas and oil. Measure flow meter output signals to monitor flow trends.

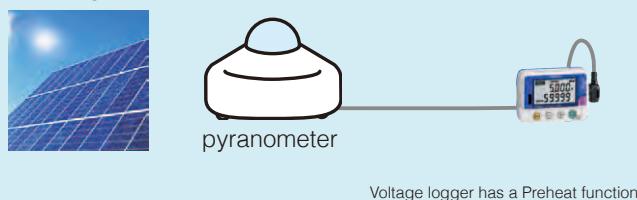


## Clamp Logger

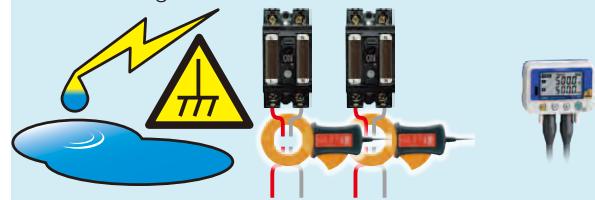
Manage the current consumption of plant and building equipment. Visually monitor power costs to efficiently conduct energy- and cost-saving activities.



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



Use as a Clamp Logger and leakage sensor to record and monitor leakage trends.



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



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



# Easy operation in just 3 steps !



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

Easy to start recording



Set your recording interval.  
(from one second to 60 minutes)

Hold the REC button  
for two seconds to  
start recording.

Unlimited installation capabilities

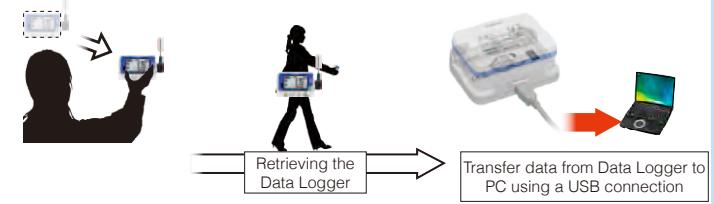


Grab the Data Logger from the worksite and connect to a PC.

Download data using infrared communication.



Communication Adapter  
LR5091

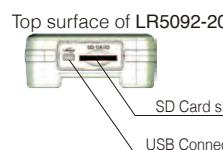


! Requires optional  
Communication Adapter  
or  
Data Collector

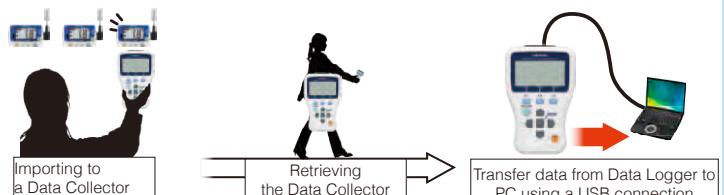
Download data using infrared communication.



Data Collector  
LR5092-20

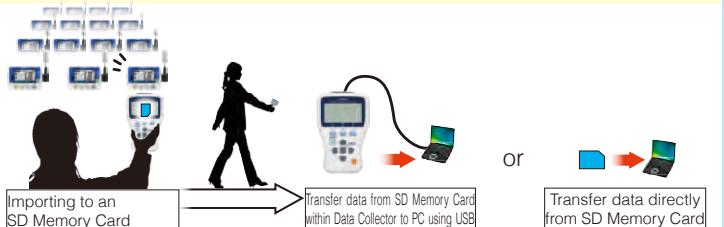


Using the Data Collector's internal memory, import data from up to 16 Data Loggers installed on site.\*

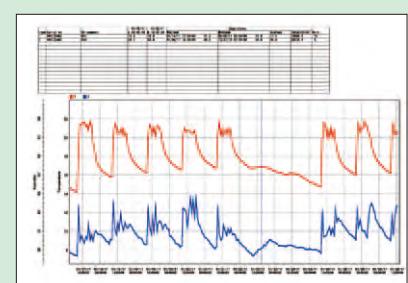
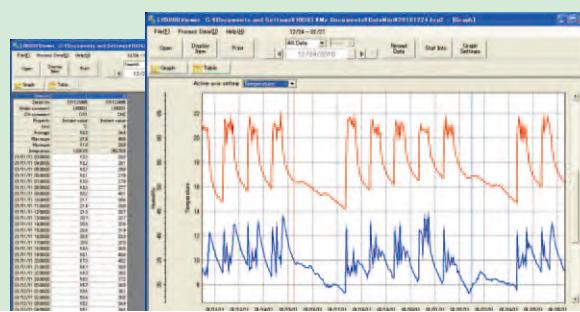


\* Data for up to 16 channels can be stored. Combine up to 16 single-channel Data Loggers (Models LR5011, LR5031, LR5041, LR5042, and LR5043), or up to eight 2-channel Data Loggers (Models LR5001, and LR5051).

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.



# Advanced Features and Functions

## ■ Install Almost Anywhere

Easily mount the light-weight, pocket-sized loggers in tight spaces.



## ■ Easy-to-see dual display

Temperature and humidity or current channels can be displayed. View maximum and minimum values while measuring.

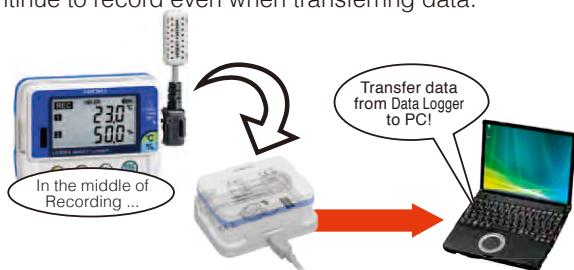
## ■ Moist environments

IP54 splash-proof rating withstands operation in extremely humid environments like kitchens and pipe rooms. (Except Model LR5051)



## ■ Transfer data even during recording

Continue to record even when transferring data.



## ■ Batteries last up to 2 years

Energy-efficient design provides up to two years of battery life (For the LR5001 only. Actual battery life depends on model type and settings).



## ■ Replace batteries while recording

Recording continues for about 30 seconds even with the battery removed.



Note. With the LR5001, recording is interrupted during battery replacement if the battery is very weak.

## ■ Recording capacity up to 7 times previous models

Large internal memory stores 60,000 data points per channel. Long-term recording capability exceeds that of previous models.

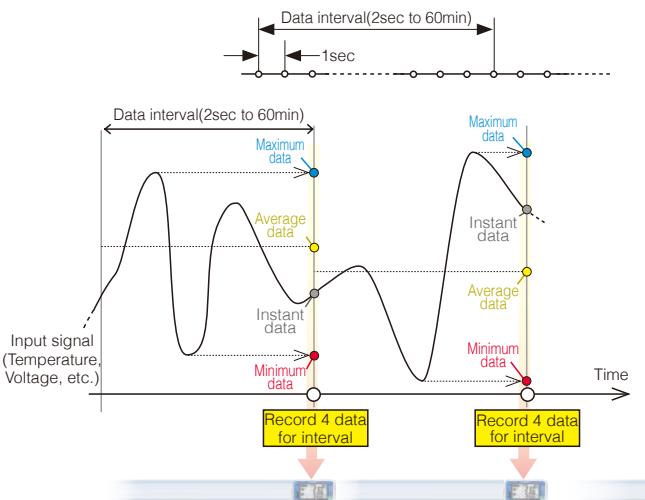
Interval times	Instantaneous value	Statistical value
1s	16h 40m	-
2s	1d 9h 20m	8h 20m
5s	3d 11h 20m	20h 50m
10s	6d 22h 40m	1d 17h 40m
15s	10d 10h	2d 14h 30m
20s	13d 21h 20m	3d 11h 20m
30s	20d 20h	5d 5h
1m	41d 16h	10d 10h
2m	83d 8h	20d 20h
5m	208d 8h	52d 2h
10m	416d 16h	104d 4h
15m	625d	156d 6h
20m	833d 8h	208d 8h
30m	1250d	312d 12h
60m	2500d	625d

⚠ The maximum recording time depends on battery life. The battery may need to be replaced during long-term recording.

⚠ 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.

## ■ Record without missing fluctuations

With usual (instantaneous value) recording at long intervals, detailed fluctuations occurring within the intervals are missed. However, with the statistical value recording mode, detailed fluctuations are captured even when they occur during long recording intervals. In STAT mode, measurement is taken every second, and the maximum, minimum, average, and instantaneous values within the specified interval are recorded.



## ■ Never worry about a dead battery

The worry-free backup function preserves measurement data even after the battery dies.



## ■ Never worry about operating errors

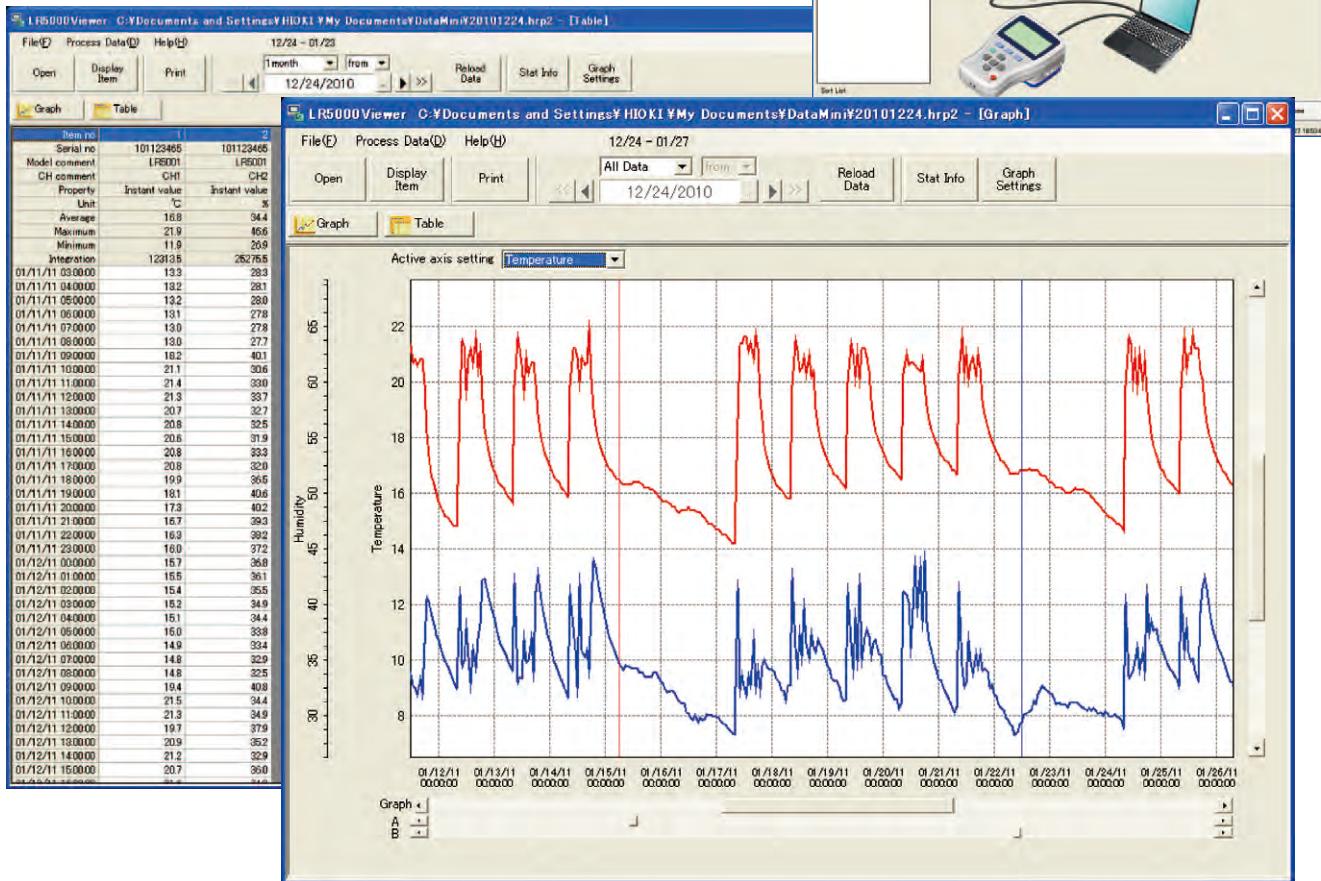
Worry-free backup preserves recorded data even if a new measurement is started by mistake.



# 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.

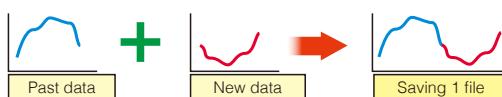


## Show specific values using the cursor function

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.



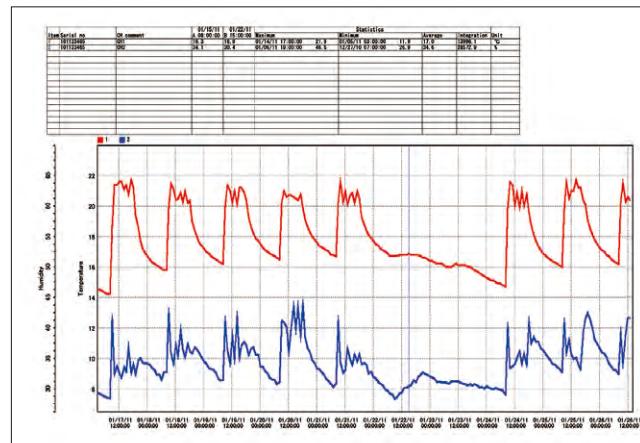
## Display data from former Data Logger models

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



### LR5000 Utility Specifications

Configuring Data Logger	<ul style="list-style-type: none"> <li>Import/export Data Logger settings (LR5091 or LR5092-20 required)</li> <li>Settings sent to each LR5000 logger are also saved to the PC.</li> </ul>
	<ul style="list-style-type: none"> <li>Graphically display data for up to 16 channels</li> <li>Select colors and display/hide any channel and graph</li> </ul>



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	OS: Windows XP (SP2 or later) Windows Vista (SP1 or later) / Windows 7 CPU: 1GHz or more

# Communication Adapter and Data Collector Specifications

Physical appearance		
Model	Communication Adapter LR5091	Data Collector LR5092-20
Features	<ul style="list-style-type: none"> <li>Transfer data from a Data logger to a PC</li> <li>Transfer Data Logger configurations or clock settings from a PC to the Data Logger</li> </ul>	<ul style="list-style-type: none"> <li>Collect recorded data from the Data Logger to internal memory or SD card</li> <li>View collected data in a graph</li> <li>Transfer Data Logger configurations or clock settings from internal memory or SD card to the Data Logger</li> <li>Transfer data from a Data Logger to a PC</li> <li>Transfer Data Logger configurations or clock settings from a PC to the Data Logger</li> </ul>
Interface with Data Logger	Infrared optical communications	
Interface with PC	USB2.0, Full Speed, Series Mini B Receptacle	
Clock functions	-	Auto calendar, auto leap year
Display	-	Dot-matrix LCD (128 x 64 dots)
Display items	-	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 x16ch (instantaneous value mode) 15,000 data elements x16ch (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 x2) 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	83 mm (3.27 in)W x 61 mm (2.40 in)H x 19mm (0.75 in)D, 43 g (1.5 oz)	91 mm (3.58 in)W x 141 mm (5.55 in)H x 31 mm (1.22 in)D, 215 g (7.6 oz) (excluding batteries)
Accessories	USB cable (1 m) x1, CD (Application software "LR5000 Utility") x 1	Instruction manual x1, Operation manual x1, LR6 (AA) Alkaline battery 1.5V x2, USB cable (1 m) x1, CD (Application software "LR5000 Utility") x 1

## LR5092-20 Option



SD Memory Card (2GB) Z4001

## LR5000 Series Common specifications

(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 <small>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.</small>
Recording methods	<b>One time recording</b> Stop recording when the memory capacity is full. <b>Endless recording</b> Continue recording even when the memory capacity is full. (old data is overwritten.)	Display items	Measured value, Interval configuration, Date, Time, Alarm, Remaining battery power, Number of data, Maximum data, Minimum data
Recording modes (instantaneous value mode/statistical value mode)	<b>Instantaneous recording</b> Instantaneous values are recorded at every recording interval. <b>Statistical value recording</b> Measure at one second intervals, and record the instantaneous, maximum, minimum, and average values within every recording interval.	Recording start / stop	<b>Recording start</b> Manual start Timer start <b>Recording stop</b> Manual stop Timer stop When the memory capacity is full (One time recording)
		Data backup	Data from the last recording session is always backed up. Back up recorded data and configuration when battery is dead.
		Interface	Infrared optical communications with LR5091, LR5092-20

## LR5000 Series common options



Magnetic Strap  
Z5004



Wall-mounted Holder  
LR9901

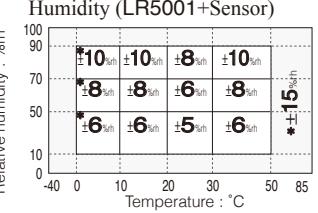
Not compatible with Model LR5051

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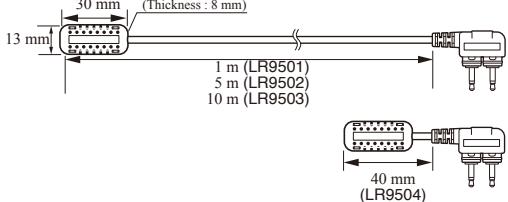
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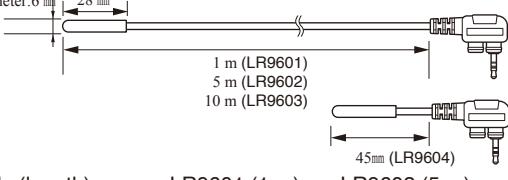
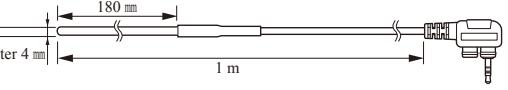
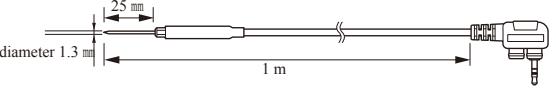
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Analysis of measurement data on a PC requires the optional LR5091 Communication Adapter or LR5092-20 Data Collector. See page 6 for details.

Product Specifications (Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year) See page 6 for Common specifications																								
Physical appearance	  Bundled sensor (LR9504) (Sensor is out of warranty)	  Optional sensor (LR9604) (Sensor is out of warranty)																						
Model	HUMIDITY LOGGER LR5001																							
Features	Temperature and humidity are recorded simultaneously using supplied or optional temperature and humidity sensors.																							
Measurement items	Temperature 1ch and Humidity 1ch																							
Measurement range	Temperature : -40°C to 85°C Humidity : 0% to 100% RH																							
Accuracy	<p>Temperature (LR5001 + Sensor) Temperature : °C</p> <table border="1"> <tr><td>85</td><td>±2.0°C</td></tr> <tr><td>70</td><td>±1.0°C</td></tr> <tr><td>35</td><td>±0.5°C</td></tr> <tr><td>0</td><td>±1.0°C</td></tr> <tr><td>-40</td><td></td></tr> </table> <p>Humidity (LR5001+Sensor) Relative humidity : %/h</p>  <p>* Values provided for reference only.</p>	85	±2.0°C	70	±1.0°C	35	±0.5°C	0	±1.0°C	-40		<p>(LR5011+Sensor) Temperature : °C</p> <table border="1"> <tr><td>180</td><td>±5.0°C</td></tr> <tr><td>120</td><td>±2.0°C</td></tr> <tr><td>70</td><td>±1.0°C</td></tr> <tr><td>35</td><td>±0.5°C</td></tr> <tr><td>0</td><td>±1.0°C</td></tr> <tr><td>-40</td><td></td></tr> </table> <p>* Depends on measurement range of sensor.</p>	180	±5.0°C	120	±2.0°C	70	±1.0°C	35	±0.5°C	0	±1.0°C	-40	
85	±2.0°C																							
70	±1.0°C																							
35	±0.5°C																							
0	±1.0°C																							
-40																								
180	±5.0°C																							
120	±2.0°C																							
70	±1.0°C																							
35	±0.5°C																							
0	±1.0°C																							
-40																								
Waterproof and dust-proof performance	IP54 (splash-proof construction)																							
Operating temperature and humidity	-20°C (-4°F) to 70°C (158°F), 80% RH or less (non-condensating)																							
Dimensions & mass	Approx. 79 mm (3.11 in)W × 57 mm (2.24 in)H × 28 mm (1.10 in)D 105 g (3.7 oz)																							
Power supply	LR6 (AA) Alkaline battery 1.5 V×1																							
Accessories	Humidity sensor LR9504×1, Kickstand	Kickstand LR6 (AA) Alkaline battery 1.5 V×1, Instruction manual×1, Operation manual×1																						
Battery life	Case 1 : Approx. 3 months Case 2: Approx. 20 days	Case 1 : Approx. 2 years Case 2: Approx. 2 months																						
	Case 1 : 1min. recording interval, power-saving mode, Instantaneous recording, environmental temp.20°C Case 2 : 1sec. recording interval, power-saving mode, Instantaneous recording, environmental temp.20°C																							

(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.

LR5001 Options	Humidity Sensor
<b>■ Humidity Sensor</b>	
	
	<ul style="list-style-type: none"> <li>● Models (length) : LR9501 (1 m) LR9502 (5 m) LR9503 (10 m) LR9504 (40 mm, bundled accessory)</li> <li>● Temperature range : -40°C to 85.0°C</li> <li>● Humidity range : 0.0% to 100.0% RH</li> <li>● Response time : Approximately 300 seconds (Temperature and humidity; 90% response time)</li> </ul>

LR5011 Options	Temperature Sensor
<b>■ Molded plastic type</b>	
	
<ul style="list-style-type: none"> <li>● Models (length) : LR9601 (1 m) LR9603 (10 m)</li> <li>● Temperature range : -40°C to 180°C</li> <li>● Response time : Approx. 100 seconds (90% response time)</li> <li>● Material : Cable : Silicon Sensor head : Silicon</li> </ul>	<ul style="list-style-type: none"> <li>● Models (length) : LR9602 (5 m) LR9604 (45 mm)</li> <li>● Models (length) : LR9611 (1 m) LR9613 (10 m)</li> <li>● Temperature range : -30°C to 180°C</li> <li>● Response time : Approx. 45 seconds (90% response time)</li> <li>● Material : Cable : Silicon Sensor head : Nickel-plated brass</li> </ul>
<b>■ Sheathed type</b>	
	
<ul style="list-style-type: none"> <li>● Models (length) : LR9621 (1 m)</li> <li>● Temperature range : -40°C to 120°C</li> </ul>	<ul style="list-style-type: none"> <li>● Models (length) : LR9631 (1 m)</li> <li>● Temperature range : -40°C to 120°C</li> </ul>
<b>■ Needle type</b>	
	

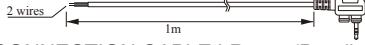
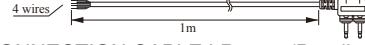
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## Product Specifications (Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year) See page 6 for Common specifications

Physical appearance	    Bundled accessory (LR9801)	    Bundled accessory (LR9802)
Model	INSTRUMENTATION LOGGER LR5031	VOLTAGE LOGGER LR5041, LR5042, LR5043
Features	For recording 4-20 mA instrumentation signals, etc.	For recording instrumentation signals and measuring analog outputs from sensors and other devices
Measurement items	For Instrumentation / 0 to 20 mA DC, 1ch	DC voltage 1ch
Measurement range	DC -30.00 to 30.00 mA	LR5041: -50.00 mV to 50.00 mV LR5042: -5.000 V to 5.000 V LR5043: -50.00 V to 50.00 V
Accuracy	$\pm 0.5\%$ rdg. $\pm 5$ dgt. (@23°C $\pm 5$ °C)	$\pm 0.5\%$ rdg. $\pm 5$ dgt. (@23°C $\pm 5$ °C)
Waterproof and dust-proof performance	IP54 (splash-proof construction)	
Operating temperature and humidity	-20°C(-4°F) to 70°C(158°F), 80% RH or less (non-condensating)	
Dimensions & Mass	Approx. 79 mm (3.11 in)W $\times$ 57 mm (2.24 in)H $\times$ 28 mm (1.10 in)D, 105 g (3.7 oz)	
Power supply	LR6 (AA) Alkaline battery 1.5 V $\times$ 1	
Accessories	Connection Cable LR9801 $\times$ 1, Kickstand LR6 (AA) Alkaline battery 1.5 V $\times$ 1, Instruction manual $\times$ 1, Operation manual $\times$ 1	Connection Cable LR9802 $\times$ 1, Kickstand
Battery life	Case 1: Approx. 2 years Case 2: Approx. 2 months	Case 1: 1min. recording interval, power-saving mode, Instantaneous recording, environmental temp. 20°C Case 2: 1 sec. recording interval, power-saving mode, Instantaneous recording, environmental temp. 20°C
Other	-	Preheat function (When using preheat function, a separate external power supply is required.)

LR5031 Option	 CONNECTION CABLE LR9801(Bundled accessory)	LR5041, LR5042, LR5043 Option	 CONNECTION CABLE LR9802 (Bundled accessory)
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Product Specifications (Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year) See page 6 for Common specifications																																						
Physical appearance	  (Sensor warranty is one year)  	<small>*Sensor is sold separately. *For customers using the previous Model 3636-20 Clamp Logger, please note the difference in recordable average data points available in the LR5051. (Please refer to page 4.)</small>																																				
Model	CLAMP LOGGER LR5051																																					
Features	Recording load current of 50Hz/60Hz Recording leak current <small>*Current and leak current that occur intermittently cannot be measured. The Clamp Logger LR5051 may be affected by high-frequency noise during leak current measurement. Please contact Hioki for more information if you plan to use the instrument in an environment where it would be affected by such noise.</small>																																					
Measurement items	AC Current (2 channels)	LR5051 Options																																				
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Battery life	Case 1: Approx. 1 years Case 2: Approx. 1 months <small>Case 1: 1min. recording interval, power-saving mode, Instantaneous recording, environmental temp. 20°C Case 2: 1 sec. recording interval, power-saving mode, Instantaneous recording, environmental temp. 20°C</small>																																					