































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

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.



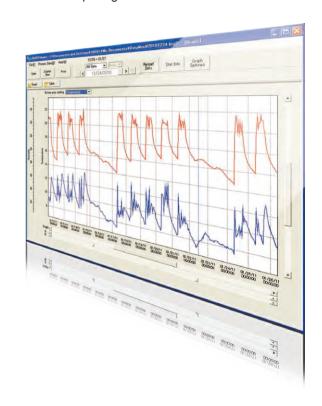
Clamp Logger

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

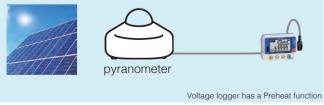


Instrumentation Logger / Voltage Logger

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



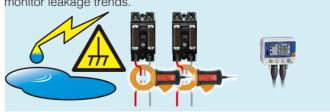
Use as a Voltage Logger to record pyranometer output for evaluating insulation.



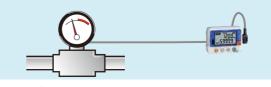
Use as a Temperature Logger to record warehouse temperatures for visually monitoring temperature changes of products and goods.



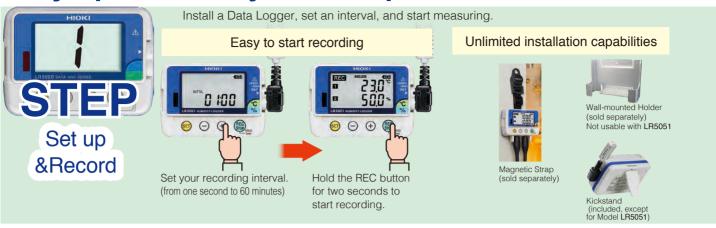
Use as a Clamp Logger and leakage sensor to record and monitor leakage trends

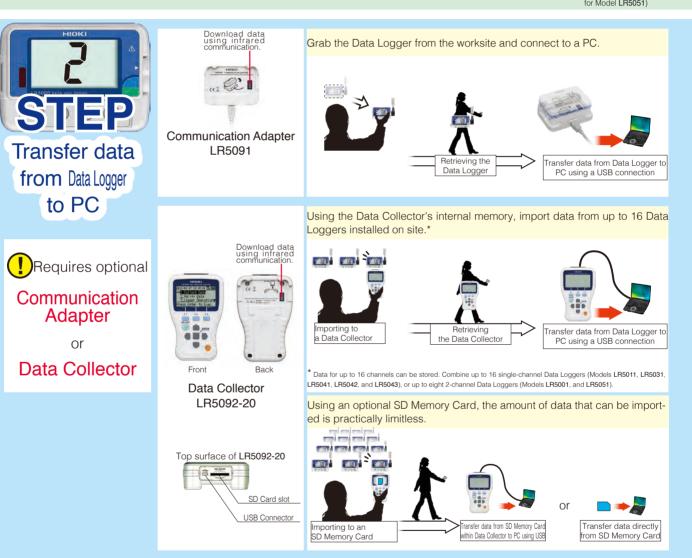


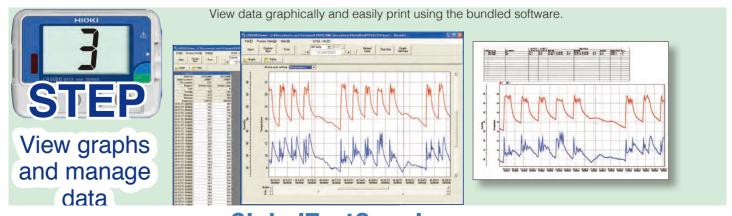
Use as an Instrumentation Logger to record pressure sensor output and monitor fluctuations in air or oil pressure.



Easy operation in just 2 steps!







Advanced Features and Functions

Install Almost Anywhere

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



Actual size

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 LR5011 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. After batteries are replaced, recording resumes automatically. Previously recorded

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.

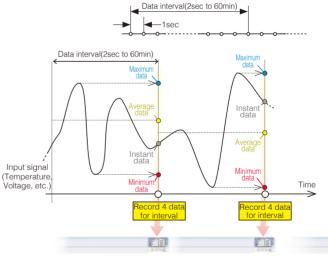
Interval times	Instantaneous value			Statis	stical	value
1s		16h	40m		-	
2s	1d	9h	20m		8h	20m
5s	3d	11h	20m		20h	50m
10s	6d	22h	40m	1d	17h	40m
15s	10d	10h		2d	14h	30m
20s	13d	21h	20m	3d	11h	20m
30s	20d	20h		5d	5h	
1m	41d	16h		10d	10h	
2m	83d	8h		20d	20h	
5m	208d	8h		52d	2h	
10m	416d	16h		104d	4h	
15m	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

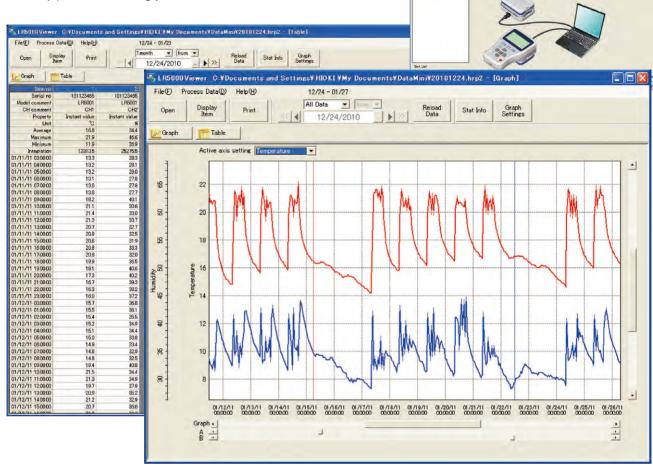
Worry-free backup preserves recorded data even if a new measurement is started by mistake.





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.



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Corporate Control Cont

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 7/ Windows 10 CPU: 1GHz or more Memory: 1 GB or more (32 bit), 2 GB or more(64 bit) Library: .NET Framework 4.5.2 or later Interface: USB

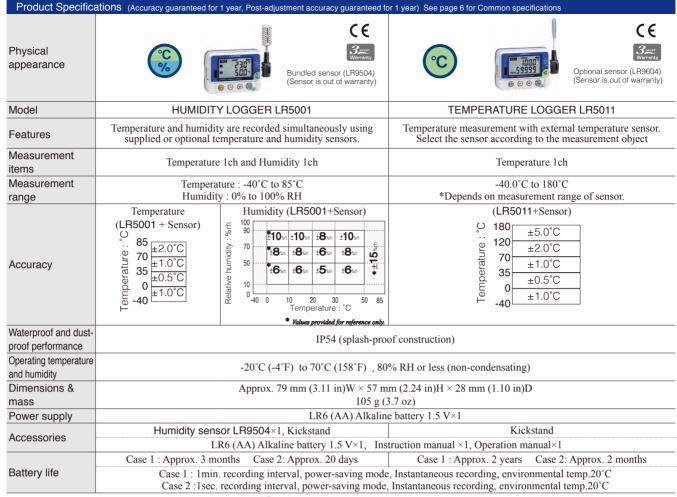
Communication Adapter and Data Collector Specifications					
Physical appearance	LHONG LHONG CE	TOTAL STATE OF THE PARTY OF THE			
Model	Communication Adapter LR5091	Data Collector LR5092-20			
Features	•Transfer data from a Data logger to a PC •Transfer Data Logger configurations or clock settings from a PC to the Data Logger	Collect recorded data from the Data Logger to internal memory or SD card			
Interface with	Infrared optical communications				
Data Logger	<u> </u>				
Interface with PC	USB2.0, Full Speed, Series Mini B Receptacle				
Clock functions	-	Auto calender, auto leap year			
Display	-	Dot-matrix LCD (128 × 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 ×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	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

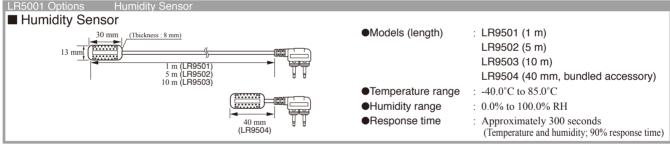
SD Memory Card (2GB) Z4001

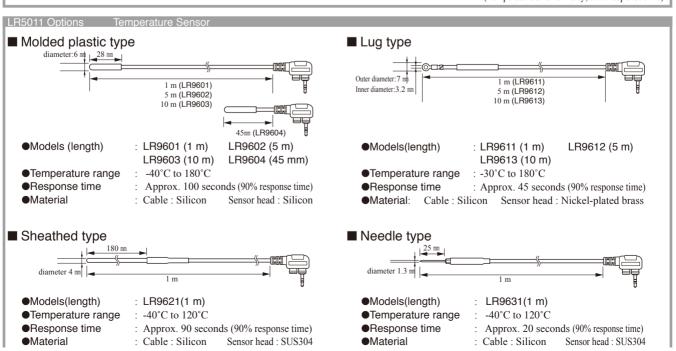
LR5000 Series Common specifications (Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year) (Accuracy guaranteed for 1 year)					
Recording interval	1/ 2/ 5/ 10/ 15/ 20/ 30 seconds 1/ 2/ 5/ 10/ 15/ 20/ 30/ 60 minutes	Storage capacity	Instantaneous value mode 60,000 data sets 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	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		
methods	Endless recording Continue recording even when the memory capacity is full. (old data is overwritten.)		Recording start Manual start Timer start		
Recording modes (instantaneous value mode/	Instantaneous recording Instantaneous values are recorded at every recording interval. Statistical value recording	Recording start / stop	Recording stop Manual stop Timer stop When the memory capacity is full (One time recording)		
statistical value mode)	Measure at one second intervals, and record the instantaneous, maximum,	Data backup	Data from the last recording session is always backed up.		
modej	minimum, and average values within every recording interval.	Дата раскир	Back up recorded data and configuration when battery is dead.		
LR5000 Series common options		Interface	Infrared optical communications with LR5091, LR5092-		
Magnetic S Z5004	Strap 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 LR5001, recording is interrupted during battery replacement if the		

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.





Analysis of measure	ement data on a PC requires the optional LR5091 Co	mmunication Adap	oter or LR5092-20 Data Collector. See page 6 for details.			
Product Specific	ations (Accuracy guaranteed for 1 year, Post-adjustment accurate	racy guaranteed for 1 ye	ear) See page 6 for Common specifications			
Physical appearance	Bundled acce (LR9801)	50mV	SV 5000 Bundled accessory (LR9802)			
Model	INSTRUMENTATION LOGGER LR5031	VO	VOLTAGE LOGGER LR5041, LR5042, LR5043			
Features	For recording 4-20 mA instrumentation signals, etc	For recording	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	±0.5% rdg. ±5 dgt. (@23°C ±5°C)		±0.5% rdg. ±5 dgt. (@23°C ±5°C)			
Waterproof and dust- proof performance	IP5	4 (splash-proof cons	truction)			
Operating temperature and humidity	-20°C(-4°F) to 70°C	(158°F), 80% RH o	or less (non-condensating)			
Dimensions & Mass	11 /		(2.24 in)H × 28 mm (1.10 in)D, 105 g (3.7 oz)			
Power supply		(AA) Alkaline batte				
Accessories	Connection Cable LR9801×1, Kickstand Connection Cable LR9802×1, Kickstand LR6 (AA) Alkaline battery 1.5 V×1, Instruction manual ×1, Operation manual×1					
Battery life	Case 1 : Approx. 2 years					
Other	-	<u> </u>	n (When using preheat function, a separate external power supply is required.)			
LR5031 Option	LR5041, LR5042, LR5043 Option					
CONNECTION CABLE LR9801(Bundled accessory)		4 wires Im CONNECTION CABLE LR9802 (Bundled accessory)				
Product Specificat	tions (Accuracy guaranteed for 1 year, Post-adjustment accuracy	LR5051 Options				
Physical appearance	(Sensor warranty is one year) *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.)	Physical appearance	3 m (9.84 ft) cord length 3 m (9.84 ft) cord length Connection cord 9219 is required (sold separately) Insidated conductor Not CE marked CLAMP ON SENSOR 9669 CLAMP ON SENSOR CT6500 CLAMP ON SENSOR 9695-02			
Model	CLAMP LOGGER LR5051	Measurable con-	φ55 mm (2.17") or less, _{90.7 15} μ _{2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2}			
Features	Recording load current of 50Hz/60Hz Recording leak current *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.	ductor diameter Primary current rating Accuracy (45Hz to 66Hz) Maximum rated voltage to earth Maximum allowable input (45 to 66 Hz)	±1.0% rdg. ±0.01% f.s. ±1.5% rdg. ±0.03% f.s. ±0.3% rdg. ±0.02% f.s. CAT III 600 V rms			
Measurement items	AC Current (2 channels)		99.5 (3.92")W × 188 (7.40")H × 77 (3.03")W × 151 (5.94")H × 51 (2.01")W × 58 (2.28")H ×			
Measurement range	When Using 9669 : 1000 Arange When Using CT6500 : 50.00 A / 500.0 A range When Using 9695-02 : 5.000 A / 50.00 A range When Using 9675 : 500.0 mA / 5.000 A range When Using 9657-10 : 500.0 mA / 5.000 A range	Dimensions & mass Load current	42 (1.05)D mm, 340 g (24.8 dz.) 42 (1.05)D mm, 340 g (12.7 dz.) 19 (0.75)D mm, 340 g (1.8 dz.) length : 3m(9.84ft)			
Accuracy	±0.5% rdg. ±5dgt. + Clamp sensor accuracy		Insulated conductor 3 m (9.84 ft) cord length Insulated conductor 3 m (9.84 ft) cord length			
Waterproof and dust- proof performance	Not waterproof	Physical appearance				
Operating temperature and humidity	-0°C (32°F) to 50°C (122°F), 80% RH or less (non-condensating)	Model	CLAMP ON LEAK SENSOR 9675 CLAMP ON LEAK SENSOR 9657-10			
Dimensions & mass	Approx. 79 mm (3.11 in)W × 70 mm (2.76 in)H × 37 mm (1.46 in)D, 165 g(5.8 oz)	Measurable conductor diameter				
Power supply	LR6 (AA) Alkaline battery 1.5V × 2	Primary current rating Accuracy (45Hz to 66Hz)				
Accessories	LR6 (AA) Alkaline battery 1.5V × 2 Instruction manual ×1. Operation manual×1	Lag current	1 mA(When 10 A AC is input) 5 mA(When 100 A AC is input)			

Note: Company names and product names appearing in this brochure are trademarks or registered trademarks of various companies.

Insulated conductor

10A continuous

60 (2.36")W × 113 (4.45")H × $\left| 74 (2.91")W \times 145 (5.71")H \times 145 (5.71")H \right|$ 24 (0.94")D mm, 160g (5.6 oz.) | 42 (1.65")D mm, 380g (13.4 oz.)



DISTRIBUTED BY

Instruction manual ×1, Operation manual×1

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

Measurable conductor

Maximum allowable input (45 to 66 Hz)

Insulated conductor

30A continuous

Battery life