































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.



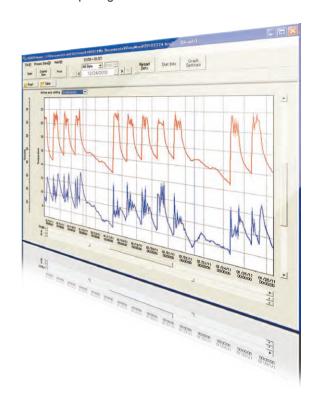
Clamp Logger

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

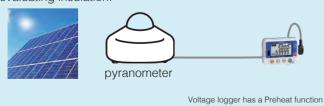


Instrumentation Logger / Voltage Logger

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



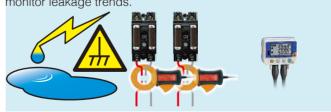
Use as a Voltage Logger to record pyranometer output for evaluating insulation.



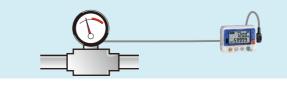
Use as a Temperature Logger to record warehouse temperatures for visually monitoring temperature changes of products and goods.



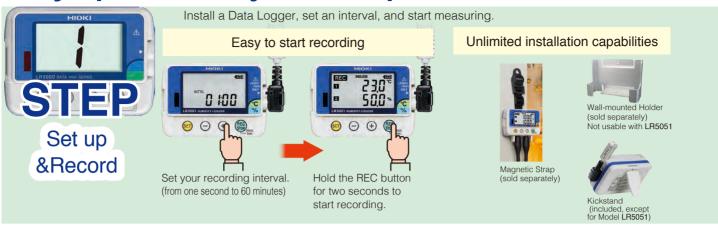
Use as a Clamp Logger and leakage sensor to record and monitor leakage trends

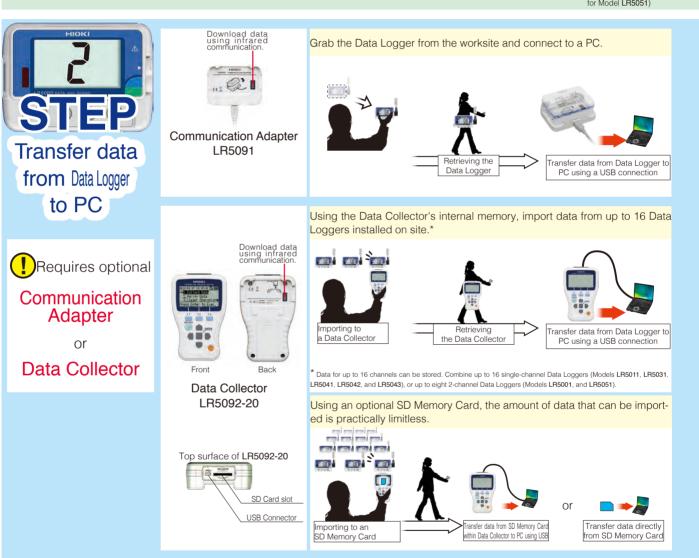


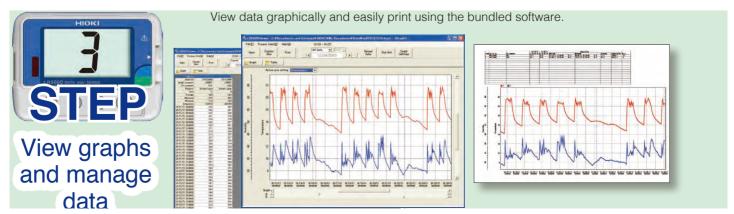
Use as an Instrumentation Logger to record pressure sensor output and monitor fluctuations in air or oil pressure.



Easy operation in just I steps!







1.888.610.7664

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			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		

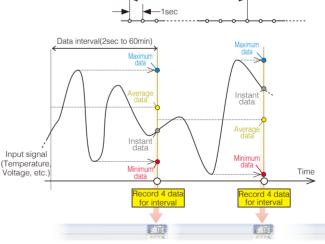
▲The maximum recording time depends on battery life. The battery may need to be replaced during long-term recording.

⚠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.

Data interval(2sec to 60min)



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.

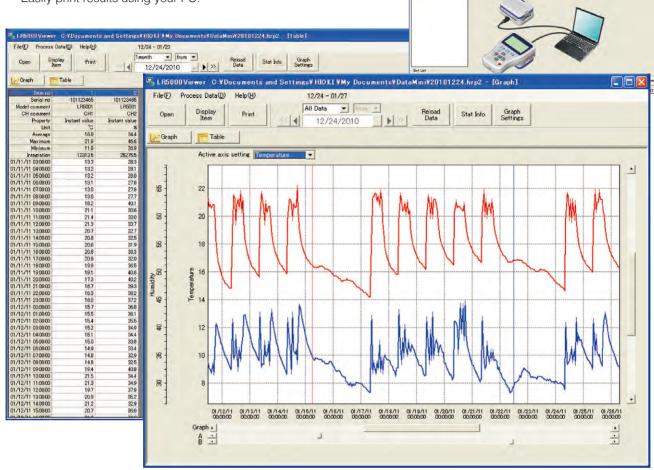




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Bundled Software Ensures Smooth and Easy Data Analysis

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

رقعي الم						
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					

the Ceriel on 101122465	Of coment On OC	\$ 00/15/11 0 4 00/00/00 B 16.3 16. 36.1 30	1/22/11 1:00:00 Minima 1:00:00 Minima 1:00 Minim	00 II.1 00 48.1	Statistics 67,00/11 ta 00.00 12/27/10 07.00.00	11.8 17.0 26.9 34.0	Integration Unit 13994 1 C 281-72 V	
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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

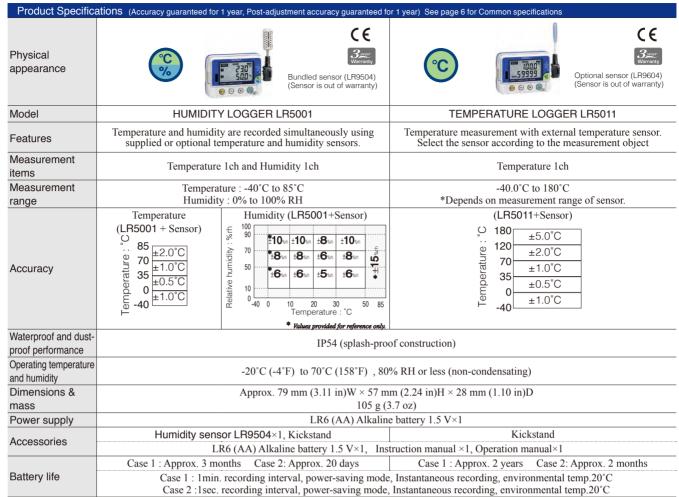
•Display statistical data (maximum, minimum and average)

Commun	ication Adapter and Data Collec	tor Specifications				
Physical appearance	(CE CE C	WISB ₂₀ WISB ₂₀ Wise of Part of Control				
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 Data Logger	Infrared optical communications					
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	In	doors				
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), 8	0% 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				

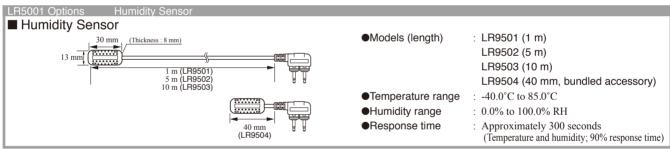
SD Memory Card (2GB) Z4001

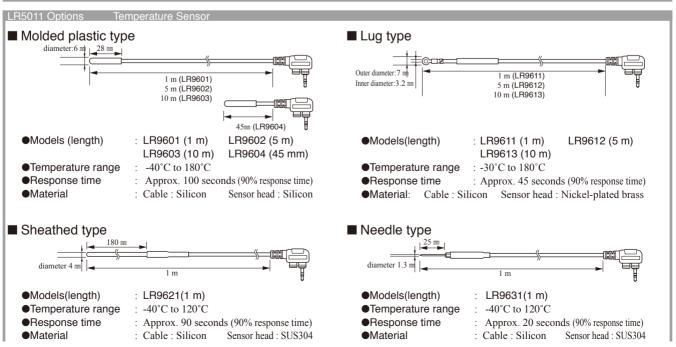
R5000 Series Common specifications. Instantaneous value mode 60,000 data sets per channel 1/2/5/10/15/20/30 seconds Recording 15,000 data sets per channel Storage capacity Statistical value mode interval 1/2/5/10/15/20/30/60 minutes Note. Customers using the previous Model 3636-20 Clamp Logger should note that the LR5051 can only record 15,000 points of average data, vs. 32,000 data points available in the 3636-20. Measured value, Interval configration, Date, Time, One time recording Display items Alarm, Remaining battery power, Number of data, Stop recording when the memory capacity is full. Recording Maximum data, Minimum data **Endless recording** methods Recording start Continue recording even when the memory capacity is full. Manual start (old data is overwritten.) Timer start Recording Recording stop start / stop Manual stop Instantaneous recording Instantaneous values are recorded at every Timer stop Recording modes recording interval. When the memory capacity is full (instantaneous Statistical value recording (One time recording) value mode/ Measure at one second intervals, and record the statistical value Data from the last recording session is always backed up. instantaneous, maximum, mode) Data backup minimum, and average values within every recording Back up recorded data and configuration when battery is dead. interval. Interface Infrared optical communications with LR5091, LR5092-20 LR5000 Series common option Magnetic Strap Wall-mounted Holder During battery replacement, recording and clock operations Z5004 LR9901 are preserved for about 30 seconds. (Recording operation Not compatible with Model LR5051 continues if the battery is replaced within about 30 seconds.) Power supply 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.





	ement data on a PC requires the optional LR5091 Co				ee page 6 for details.		
Product Specific	cations (Accuracy guaranteed for 1 year, Post-adjustment accu		ear) See page 6 for Co	mmon specifications	CE		
Physical appearance	Bundled acce (LR9801)	50mV	V 50V	5900 59999 © © ©	Bundled accessory (LR9802)		
Model	INSTRUMENTATION LOGGER LR5031	VO	LTAGE LOGGER		2, LR5043		
Features	For recording 4-20 mA instrumentation signals, etc	For recording	instrumentation significant sensors are	nals and measuring nd other devices	g analog outputs from		
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	r less (non-condens	ating)			
Dimensions & Mass	Approx. 79 mm (3.11 in)W ×			105 g (3.7 oz)			
Power supply		(AA) Alkaline batter	J	- I D00001 W	1 , 1		
Accessories	Connection Cable LR9801×1, Kickstand LR6 (AA) Alkaline battery	1.5 V×1, Instruction	Connection Cabl manual ×1, Operati		KSTANG		
5		ox. 2 years Case 2					
Battery life	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 fun	ction, a separate externa	al power supply is required.)		
LR5031 Option	// gent CT	LR5041, LR5042, LR5043 Option					
2 wires	1m	4 wires/					
CONNECT	TON CABLE LR9801 (Bundled accessory)	CONNECTI	ON CABLE LR980	02 (Bundled acce	essory)		
Product Specification guaranteed for 1 year)	tions (Accuracy guaranteed for 1 year, Post-adjustment accuracy See page 6 for Common specifications	LR5051 Options Load current					
	(Sensor warranty is C €		3 m (9.84 ft) cord length	3 m (9.84 ft) cord length	Connection cord 9219 is required (sold separately)		
Physical	one year)	Physical	1		Insulated conductor		
appearance	*Sensor is sold separately. *For customers using the previous Model 3636-20	appearance		6.50	🏰 👺		
	Clamp Logger, please note the difference in recordable average data points available in the LR5051. (Please refer to page 4.)	Model	C € CLAMP ON SENSOR 9669	C € CLAMP ON SENSOR CT6500	Not CE marked CLAMP ON SENSOR 9695-02		
Model	CLAMP LOGGER LR5051	Measurable con-	φ55 mm (2.17") or less,	φ46 mm (1.81") or less	φ15 mm (0.59") or less		
	Recording load current of 50Hz/60Hz	ductor diameter Primary current rating	80 (3.15") × 20 (0.79") mm busbar 1000 A AC	500 A AC	50 A AC		
Features	Recording leak current *Current and leak current that occur intermittently cannot be measured.	Accuracy (45Hz to 66Hz)	±1.0% rdg. ±0.01% f.s.	±1.5% rdg. ±0.03% f.s.	±0.3% rdg. ±0.02% f.s.		
	*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	Maximum rated voltage to earth	CAT III 600 V rms	CAT III 600 V rms	CAT III 300 V rms		
Measurement items	use the instrument in an environment where it would be affected by such noise. AC Current (2 channels)	Maximum allowable input (45 to 66 Hz)	1000 A continuous 99.5 (3.92")W × 188 (7.40")H ×	600 A continuous 77 (3.03")W × 151 (5.94")H ×	60 A continuous 51 (2.01")W × 58 (2.28")H ×		
	When Using 9669 : 1000 A range	Dimensions & mass			19 (0.75")D mm, 50 g (1.8 oz.)		
Measurement	When Using CT6500 : 50.00 A / 500.0 A range When Using 9695-02 : 5.000 A / 50.00 A range	length : 3m(9.84ft)					
range	When Using 9675 : 500.0 mA / 5.000 A range When Using 9657-10 : 500.0 mA / 5.000 A range	Connection Cord 9219(For 9695-02 connection)					
Accuracy	±0.5% rdg. ±5dgt. + Clamp sensor accuracy	Diam'r d	Insulated conductor 3 m (9.84 f	t) cord length Insulated conductor	3 m (9.84 ft) cord length		
Waterproof and dust- proof performance	Not waterproof	Physical appearance	A CE				
Operating temperature and humidity	-0°C (32°F) to 50°C (122°F), 80% RH or less (non-condensating)			LEAK SENSOR 9657-10			
	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	φ30 mm		φ40 mm		
Power supply	LR6 (AA) Alkaline battery 1.5V × 2	Primary current rating Accuracy (45Hz to 66Hz)	5 A AC (Using with I ±1.0% rdg. ±0.005	C (Using with LR5051) % rdg. ±0.05% f.s.			
Accessories	LR6 (AA) Alkaline battery 1.5V × 2 Instruction manual ×1, Operation manual×1	Lag current	1 mA(When 10 A AC	hen 100 A AC is input)			
	Case 1 : Approx. 1 years	Measurable conductor	Insulated conductor		ulated conductor		
Battery life	Case 1 : Imin. recording interval, power-saving mode, Instantaneous recording, environmental temp.20°C Case 2 : I sec. recording interval,	Maximum allowable input (45 to 66 Hz)	10A continuou		0A continuous		
,	recording, environmental temp.20°C Case 2 : 1 sec. recording interval, power-saving mode, Instantaneous recording, environmental temp.20°C	Dimensions & mass $ \begin{vmatrix} 60 \ (2.36")W \times 113 \ (4.45")H \times \\ 24 \ (0.94")D \ mm, \ 160g \ (5.6 \ oz.) \end{vmatrix} $					

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