DATA LOGGER LR5000 Series

ΗΙΟΚΙ



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.



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.



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 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 **3** steps !





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 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. Note. With the LHS001, recording is interrupted during battery replacement if the battery is very weak. After batteries are replaced, recording resumes automati-cally. Previously recorded data is not lost during battery replacement. replacement.

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 Setter Souther Control Contro Use the LR5000 Utility program to import Data Logger data to a PC to make graphs and analyze data further. Model Gerial no? Model com Easily print results using your PC. 🖥 LR5000Viewer - C:YDocuments and SettingsYHIOKLYMy DocumentsYDataMiniY20101224.hrp2 - [Table] File(E) Process Data(D) Help(H) 12/24 - 01/23 1 month • from • Display Item Graph Settings Open Print Reload Data Stat Info 12/24/2010 - **>** >> Table Graph 📲 LR5000Viewer - C:¥Documents and Settings¥ HIOKI¥My Documents¥DataMini¥20101224.hrp2 [Gra File(F) 12/24 - 01/27 Process Data(D) Help(H) 101123465 LR5001 LR5001 All Data
from
12/24/2010 Display Item Reload Data Graph Settings CHI CH2 Open Print Stat Info comment Property Unit Instant value Instant value < ∢ 168 Graph Table 21.9 11.9 11.9 123135 133 132 132 132 132 131 130 Active axis setting Temperature Integratio 11 03000 11 04000 11 05000 11 05000 --8 07:00:0 22 08000 13.0 100000 100000 110000 120000 120000 130000 140000 18.2 21.1 21.4 21.3 20.7 20.8 8 20 140000 150000 160000 170000 180000 190000 200000 210000 210000 ю 18 20.6 20.8 20.8 19.9 18.1 17.3 16.7 01/1 Humidity 50 ature 16 [ember 220000 230000 00:00:00 02:00:00 02:00:00 04:00:00 05:00:00 06:00:00 07:00:00 08:00:00 16.9 16.0 15.7 15.5 15.4 15.2 15.1 15.0 14.9 14.8 14.8 \$ 1/12/1 ₽ ю 090000 100000 11:0000 12:0000 13:0000 14:0000 15:00:00 19.4 21.5 21.3 19.7 20.9 21.2 20.7 8 1/12/11 • 01/26/11 Graph • ÷ A I

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	0 Utility S	pecificatio	ons	
Configurating Data Logger	LR509	2-20 requ sent to ea	ired)	C	s (LR5091 or are also saved
Graph display	•Select co •Copy gr	olors and o aph image statistical	display/hid es to clipbo	oard	channels innel and graph num and average)



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 Free space in hard disk:30MB or more

Commun	ication Adapter and Data Collec	tor Specifications
Physical appearance		
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 optica	l communications
Interface with PC	USB2.0, Full Speed, S	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 stor- age 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	$0^{\circ}C~(32^{\circ}F)~$ to $40^{\circ}C~(104^{\circ}F)~$, 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 $(1 \text{ m}) \times 1$, CD (Application software "LR5000 Utility") $\times 1$	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 Optior	1	

<u>2</u>... SD Memory Card (2GB) Z4001

LR5000 Series Common specifications				
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 recording Instantaneous values are recorded at every recording interval. Statistical value recording Measure at one second intervals, and record the instantaneous, maximum, minimum, and average values within every recording	Recording start / stop	Recording stop Manual stop Timer stop When the memory capacity is full (One time recording)	
statistical value mode)		Data backup	Data from the last recording session is always backed up.	
	interval.	· · ·	Back up recorded data and configuration when battery is dead.	
LR5000 Series co	ommon options	Interface	Infrared optical communications with LR5091, LR5092-20	
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 battery is very weak. After batteries are replaced, recording resumes automatically. Previously recorded data is not lost during battery replacement.	





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

Product Specific	ations (Accuracy guaranteed for 1 year) See page 6 for Comn	ion specifications			
Physical appearance	Euroled acce (LR9801)	ssory			CE Guerranty Bundled accessory (LR9802)
Model	INSTRUMENTATION LOGGER LR5031	Earmanding	LTAGE LOGGER		,
Features	For recording 4-20 mA instrumentation signals, etc	. For recording		nd other devices	g analog outputs from
Measurement items	For Instrumentation / 0 to 20 mA DC, 1ch		DC v	voltage 1ch	
Measurement range	DC -30.00 to 30.00 mA		LR5042: -5.	00 mV to 50.00 m ³ .000 V to 5.000 V 0.00 V to 50.00 V	V
Accuracy	±0.5% rdg. ±5 dgt. (@23°C ±5°C)		±0.5% rdg. ±5	dgt. (@23°C ±5°C	C)
Waterproof and dust- proof performance	IP5	4 (splash-proof cons	truction)		
Operating temperature and humidity	-20°C(-4°F) to 70°C				
Dimensions & Mass	Approx. 79 mm (3.11 in)W ×			105 g (3.7 oz)	
Power supply		(AA) Alkaline batter	2		ratand
Accessories	Connection Cable LR9801×1, Kickstand LR6 (AA) Alkaline battery				ksiand
Battery life	Case 1 : Appro Case 1 : 1min. recording interval, power Case 2 : 1 sec. recording interval, power		ntaneous recording, e		
Other	-	Preheat function	(When using preheat fund	ction, a separate externa	I power supply is required.)
For LR5031		For LR5041, LR5	042, LR5043		
2 wires		4 wires	1m		
			1m		
CONNECT	ION CABLE LR9801 (Bundled accessory)		ON CABLE LR980		essory)
	iONS (Accuracy guaranteed for 1 year) n specifications				Connection cord 9219 is
Product Specifica	ions (Accuracy guaranteed for 1 year) specifications (Sensor warranty is one year) (Sensor warranty is Sensor is sold separately. *For customers using the previous Model 3636-20 Clamp Logger, please note the difference in record able average data points available in the LFS051.	CONNECTI LR5051 Options Load current Physical appearance	ON CABLE LR980	3 m (9.84 ft) cord length	Connection cord 9219 is required (sold separately) Insulated conductor Not CE marked
Product Specifica See page 6 for Commo Physical appearance	ions (Accuracy guaranteed for 1 year) specifications (Sensor warranty is one year) (Sensor warranty is one year) (Sensor warranty is Sensor is sold separately. *For customers using the previous Model 3638-20 Clamp Logger, please note the difference in record- able average data points available in the LR5051. (Please refer to page 4.)	CONNECTI LR5051 Options Load current Physical appearance Model	ON CABLE LR980	3 m (9.84 ft) cord length	Connection cord 9219 is required (solid separately) Insulated conductor Not CE marked CLAMP ON SENSOR 9695-02
Product Specifica See page 6 for Commo Physical	ions (Accuracy guaranteed for 1 year) specifications (Sensor warranty is one year) Sensor is sold separately. *For customers using the previous Model 3636-20 Clamp Logger, please note the difference in record- able average data points available in the LR5051. (Please refer to page 4.) CLAMP LOGGER LR5051 Recording load current of 50Hz/60Hz	CONNECTI LR5051 Options Load current Physical appearance Model Measurable con- ductor diameter	ON CABLE LR98C ^{3 m (9.84 ft)} cord length ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	3 m (9.84 ft) cord length	Connection cord 9219 is required (sold separately) Insulated conductor Not CE marked
Product Specifica See page 6 for Commo Physical appearance	ions (Accuracy guaranteed for 1 year) specifications (Sensor warranty is one year) (Sensor is sold separately. *Sensor is sold separately. *Sensor is sold separately. *Sensor is sold separately. *Sensor is sold separately. *Created the difference in record- able average data points available in the LR5051. (Please refer to page 4.) CLAMP LOGGER LR5051 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 Hibds for more information if you plan to	CONNECTI LR5051 Options Load current Physical appearance Model Measurable con-	ON CABLE LR980	3 m (9.84 ft) cord length 3 m (9.84 ft) cord length C C CLAMP ON SENSOR CT6500 \$\varphi46 \text{ mm} (1.81") or less	Connection cord 9219 is required (sold separately) is Conductor Not CE marked CLAMP ON SENSOR 9695-02 Ø15 mm (0.59") or less
Product Specifical See page 6 for Commo Physical appearance Model Features	ions (Accuracy guaranteed for 1 year) specifications (Sensor warranty is one year) (Sensor is sold separately. *Sensor is sold separately. *Sensor is sold separately. *Sensor is sold separately. *Gram Logger, plasa note the difference in record- able average data points available in the LR5051. (Please refer to page 4.) CLAMP LOGGER LR5051 Recording load current of 50Hz/60Hz Recording leak current that current may earling the affected by high-frequency noise during leak current measurement. Please contact High for more information if you plan to use the instrument in an environment where it would be affected by such noise.	CONNECTI LR5051 Options Load current Physical appearance Model Measurable con- ductor diameter Primary current rating Accuracy (45Hz to 66Hz)	ON CABLE LR980	3 m (9.84 ft) cord length 3 m (9.84 ft) cord length (C) C (C) CLAMP ON SENSOR CT6500 \$\vert 40 mm (1.81") or less 500 A AC \$\pm 1.5% rdg. \pm 0.03% f.s. CAT III 600 V rms 600 A continuous	Connection cord 9219 is required (sold separately) Not CE marked CLAMP ON SENSOR 9695-02 Ø15 mm (0.59") or less 50 A AC ±0.3% rdg. ±0.02% f.s. CAT III 300 V rms 60 A continuous
Product Specifica See page 6 for Commo Physical appearance Model	ions (Accuracy guaranteed for 1 year) specifications (Sensor warranty is one year) (Sensor warranty is one year) (Sensor is sold separately. *Sensor is sold separately. *Greate sold separately. *Greate of the difference in record- able average data points available in the LR5051. (Please refer to page 4.) CLAMP LOGGER LR5051 Recording load current of 50Hz/60Hz Recording leak current *Current and leak current thar occurrent *Current and leak current thar occur information if you plan to use the instrument in an environment where it would be affected by such noise. AC Current (2 channels)	CONNECTI LR5051 Options Load current Physical appearance Model Measurable con- ductor diameter Primary current rating Accuracy (45Hz to 66Hz) Maximum rated voltage to earth	ON CABLE LR980	3 m (9.84 ft) cord length 3 m (9.84 ft) cord length C E CLAMP ON SENSOR CT6500 \$\vert 40 mm (1.81") or less 500 A AC \$\pm 1.5\vert v rdg. \pm 0.03\vert f.s. CAT III 600 V rms 600 A continuous 77 (3.03")W × 151 (5.94")H ×	Connection cord 9219 is required (solid separately) Not CE marked CLAMP ON SENSOR 9695-02 φ15 mm (0.59") or less 50 A AC ±0.3% rdg. ±0.02% f.s. CAT III 300 V rms 60 A continuous 51 (2.01")W × 58 (2.28")H ×
Product Specifical See page 6 for Commo Physical appearance Model Features	ions (Accuracy guaranteed for 1 year) specifications (Sensor warranty is one year) Sensor is sold separately. Sensor is sold sensor is so	CONNECTI LR5051 Options Load current Physical appearance Model Measurable con- ductor diameter Primary current rating Accuracy (45Hz to 66Hz) Maximum rated voltage to earth Maximum rated voltage to earth	ON CABLE LR980 3 m (9.84 ft) cord length	3 m (9.84 ft) cord length 3 m (9.84 ft) cord length C (C CLAMP ON SENSOR CT6500 \$\vert 40 mm (1.81") or less 500 A AC \$\pm 1.5\vert rdg, \pm 0.3\vert \pm f.s. CAT III 600 V rms 600 A continuous 77 (3.03")W \sis (5.44")H \sis 42 (1.65")D mm, 360 g (12.7 \ox) 1 9219 (For 9695-02 co	Connection cord 9219 is required (sold separately) Not CE marked CLAMP ON SENSOR 9695-02 \$\varphi 15 \text{ mm}(0.59") or less 50 A AC \$\pm 0.50 \text{ mm}(0.59") or less 50 A AC \$\pm 0.50 \text{ mm}(0.59") or less 51 (2.01") \text{ mm}(0.59") or less 60 A continuous 51 (2.01") \text{ mm}(0.52") H \text{ mm}(0.54 \text{ mm}) here here here here here here here her
Product Specificat See page 6 for Commo Physical appearance Model Features Measurement items Measurement range Accuracy	ions (Accuracy guaranteed for 1 year) specifications (Sensor warranty is one year) (Sensor is sold separately. *Sensor is sold separately. *Sensor is sold separately. *Sensor is sold separately. *Comp Logger, please note the difference in record- able average data points available in the LR5051. (Please refer to page 4.) CLAMP LOGGER LR5051 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 Hiok for more information if you plan to use the instrument in an environment where it would be affected by such noise. <u>AC Current (2 channels)</u> When Using 9669 : 1000 A range When Using 9695-02 : 5.000 A / 50.00 A range When Using 9675-02 : 500.00 M / 5.000 A range	CONNECTI LR5051 Options Load current Physical appearance Model Measurable con- ductor diameter Primary current rating Accuracy (45Hz to 66Hz) Maximum rated voltage to earth Maximum rated voltage to earth Maximu	ON CABLE LR980	3 m (9.84 ft) cord length 3 m (9.84 ft) cord length C C CLAMP ON SENSOR CT6500 \$\vee\$46 mm (1.81") or less 500 A AC \$\pm 1.5% rdg. \$\pm 0.3% f.s. CAT III 600 V rms 600 A continuous 77 (3.03")W × 151 (5.94")H × 42 (1.65")D mm, 360 g (12.7 oz.) DDDD \$\vee\$495-02 co \$\pm 1000 \vee\$5-02 co \$\pm 1000 \vee\$5-00 co \$\pm 1000 \vee\$5-00 co \$\pm 1000 \vee\$5-00 co \$\pm 1000 \vee\$5-00 co \$\pm 1000 \vee\$5-	Connection cord 9219 is required (sold separately) Insulated conductor Insulated CLAMP ON SENSOR 9695-02 φ15 mm (0.59") or less 50 A AC ±0.3% rdg. ±0.02% f.s. CAT III 300 V rms 60 A continuous 51 (2.01")W × 58 (2.28")H × 19 (0.75")D mm, 50 g (1.8 oz.)
Product Specifical See page 6 for Commo Physical appearance Model Features Measurement items Measurement range Accuracy Waterproof and dust- proof performance	ions (Accuracy guaranteed for 1 year) specifications (Sensor warranty is one year) Sensor is sold separately. Sensor is sold sentely. Se	CONNECTI LR5051 Options Load current Physical appearance Model Measurable con- ductor diameter Primary current rating Accuracy (45Hz to 66Hz) Maximum rated voltage to earth Maximum rated voltage to earth Maximum rated voltage to earth	ON CABLE LR980	3 m (9.84 ft) cord length 3 m (9.84 ft) cord length (C) C (C) CLAMP ON SENSOR CT6500 \$\vert 40 mm (1.81") or less 500 A AC \$\pm 1.81") or less 500 A C \$\pm 1.81" or less \$\pm 1.82" or less \$\pm 1.8	Connection cord 9219 is required (sold separately) Not CE marked CLAMP ON SENSOR 9695-02 \$\varphi 15 \text{ mm}(0.59") or less 50 A AC \$\pm 0.50 \text{ mm}(0.59") or less 50 A AC \$\pm 0.50 \text{ mm}(0.59") or less 51 (2.01") \text{ mm}(0.59") or less 60 A continuous 51 (2.01") \text{ mm}(0.52") H \text{ mm}(0.54 \text{ mm}) here here here here here here here her
Product Specifical See page 6 for Commo Physical appearance Model Features Measurement items Measurement range Accuracy Waterproof and dust- proof performance Operating temperature	ions (Accuracy guaranteed for 1 year) specifications (Sensor warranty is one year) Sensor is sold separately. Sensor is sold separatel	CONNECTI LR5051 Options Load current Physical appearance Model Measurable con- ductor diameter Primary current rating Accuracy (45Hz to 66Hz) Maximum rated voltage to earth Maximum allowable input (45 to 66 Hz) Dimensions & mass Load current Physical appearance Model	ON CABLE LR980	3 m (9.84 ft) cord length 3 m (9.84 ft) cord length C (C CLAMP ON SENSOR CT6500 ¢46 mm (1.81") or less 500 A AC ±1.5% rdg. ±0.03% f.s. CAT III 600 V rms 600 A continuous 77 (3.03")W × 151 (5.94")H × 42 (1.65")D mm, 360 g (12.7 oz.) 1000 1 cord length Insulated C (C) (1000 1 cord length C (C) (1000 1 cord length	Connection cord 9219 is required (sold separately) Not CE marked CLAMP ON SENSOR 9695-02 φ15 mm (0.59") or less 50 A AC ±0.3% rdg. ±0.02% f.s. CAT III 300 V rms 60 A continuous 51 (2.01")W × 58 (2.28")H × 19 (0.75")D mm, 50 g (1.8 oz.) length : 3m (9.84 ft) cord length : 3m (9.84 ft) cord length LEAK SENSOR 9657-10
Product Specifical See page 6 for Commo Physical appearance Model Features Measurement items Measurement range Accuracy Waterproof and dust- proof performance Operating temperature and humidity	ions (Accuracy guaranteed for 1 year) specifications (Sensor warranty is one year) Sensor is sold separately. "For customers using the previous Model 3636-20 Charp Logger, please note the difference in record- able average data points available in the LPB051. (Please refer to page 4.) CLAMP LOGGER LR5051 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 Hicki for more information if you plan to use the instrument in an environment where it would be affected by such noise. AC Current (2 channels) When Using 9669 : 1000 A range When Using 9657.02 : 5.000 A / 50.00 A range When Using 9657.10 : 500.0 mA / 5.000 A range When Using 9657.10 : 500.0 mA / 5.000 A range When Using 9657.10 : 500.0 mA / 5.000 A range ±0.5% rdg. ±5dgt. + Clamp sensor accuracy Not waterproof $-0^{\circ}C (32^{\circ}F)$ to $50^{\circ}C (122^{\circ}F)$,	CONNECTI LR5051 Options Load current Physical appearance Model Measurable con- ductor diameter Primary current rating Accuracy (45Hz to 66Hz) Maximum rated voltage to earth Maximum allowable input (45 to 66 Hz) Dimensions & mass Load current Physical appearance Model Measurable conductor diameter	ON CABLE LR980	3 m (9.84 ft) cord length 3 m (9.84 ft) cord length C (C CLAMP ON SENSOR CT6500 ¢46 mm (1.81") or less 500 A AC ±1.5% rdg. ±0.03% f.s. CAT III 600 V rms 600 A continuous 77 (3.03")W × 151 (5.94")H × 42 (1.65")D mm, 360 g (12.7 oz.) 1000 5 ocol length Insulated SOR 9675 CLAMP ON	Connection cord 9219 is required (sold separately) Not CE marked CLAMP ON SENSOR 9695-02 φ15 mm (0.59") or less 50 A AC ±0.3% rdg. ±0.02% f.s. CAT III 300 V rms 60 A continuous 51 (2.01")W × 58 (2.28"]H × 19 (0.75")D mm, 50 g (1.8 oz.) Signer (1.8 dec) Signer
Product Specifical See page 6 for Commo Physical appearance Model Features Measurement items Measurement range Accuracy Waterproof and dust- proof performance Operating temperature and humidity	ions (Accuracy guaranteed for 1 year) specifications (Sensor warranty is one year) Sensor is sold separately. Sensor is sold sensely. Sensor is sold sensely. Sensor is sold sensely. Sensor	CONNECTI LR5051 Options Load current Physical appearance Model Measurable con- ductor diameter Primary current rating Accuracy (45Hz to 66Hz) Maximum rated voltage to earth Maximum allowable input (45 to 66 Hz) Dimensions & mass Load current Physical appearance Model Measurable conductor diameter Primary current rating	ON CABLE LR980	3 m (9.84 ft) cord length 3 m (9.84 ft) cord length (c)	Connection cord 9219 is required (sold separately) Not CE marked CLAMP ON SENSOR 9695-02 φ15 mm (0.59") or less 50 A AC ±0.3% rdg. ±0.02% f.s. CAT III 300 V rms 60 A continuous 51 (2.01")W × 58 (2.28")H × 19 (0.75")D mm, 50 g (1.8 oz.) Sign(9.84ft) nnection) 3 m (9.84 ft) cord length : 3m(9.84ft) cord length LEAK SENSOR 9657-10 φ40 mm C (Using with LR5051)
Product Specifical See page 6 for Commo Physical appearance Model Features Measurement items Measurement items Measurement range Accuracy Waterproof and dust- proof performance Operating temperature and humidity Dimensions & mass	ions (Accuracy guaranteed for 1 year) specifications (Sensor warranty is one year) Sensor is sold separately. Sensor is sold sensely. Sensor is sold sensely. Sensor is sold sensely. Sensor	CONNECTI LR5051 Options Load current Physical appearance Model Measurable con- ductor diameter Primary current rating Accuracy (45Hz to 66Hz) Maximum rated voltage to earth Maximum alowable input (45 to 86 Hz) Dimensions & mass Load current Physical appearance Model Measurable conductor diameter Primary current rating Accuracy (45Hz to 66Hz) Lag current	ON CABLE LR980	3 m (9.84 ft) cord length 3 m (9.84 ft) cord length C (C CLAMP ON SENSOR CT6500 \$\vee 4 mm (1.81") or less 500 A AC ±1.5% rdg. ±0.03% f.s. CAT III 600 V rms 600 A continuous 77 (3.03")W × 151 (5.94")H × 42 (1.65")D nm, 360 g (127 oz.) 1000 SOR 9675 CLAMP ON Insulated Cord length Insulated SOR 9675 CLAMP ON R5051) 5 A AC % f.s. ±1.0% is input)	Connection cord 9219 is required (solid separately) Not CE marked CLAMP ON SENSOR 9695-02 φ 15 mm (0.59") or less 50 A AC ±0.3% rdg. ±0.02% f.s. CAT III 300 V rms 60 A continuous 51 (2.01")W × 58 (2.28"]H × 19 (0.75")D mm, 50 g (1.8 oz.) Signer (solid sec.) Signer
Product Specifical See page 6 for Commo Physical appearance Model Features Measurement items Measurement range Accuracy Waterproof and dust- proof performance Operating temperature and humidity Dimensions & mass Power supply	ions (Accuracy guaranteed for 1 year) specifications (Sensor warranty is one year) Sensor is sold separately. Sensor is sold sensor is sold sensor if sensor is sold separately. Sensor is sold sensor is sold sensor is so	CONNECTI LR5051 Options Load current Physical appearance Model Measurable con- ductor diameter Primary current rating Accuracy (45Hz to 66Hz) Maximum allowable input (45 to 86 Hz) Dimensions & mass Load current Physical appearance Model Measurable conductor diameter Primary current rating Accuracy (45Hz to 66Hz)	ON CABLE LR980	3 m (9.84 ft) cord length 3 m (9.84 ft) cord length C € CLAMP ON SENSOR CT6500 \$\varphi dg. ±0.03\% fts. CAT III 600 V rms 600 A continuous 77 (3.03")W × 151 (5.94")H × 42 (1.65")D nm, 360 g (12.7 oz) 1000 \$\varphi are 1500 fts. CAT III 600 V rms 600 A continuous 77 (3.03")W × 151 (5.94")H × 42 (1.65")D nm, 360 g (12.7 oz) 1000 \$\varphi are 2500 fts. 500 A POP5 CAT III Food POP5-02 co \$\varphi are 2500 fts. \$\varph	Connection cord 9219 is required (solid separately) Not CE marked CLAMP ON SENSOR 9695-02 φ15 mm (0.59") or less 50 A AC ±0.3% rdg. ±0.02% f.s. CAT III 300 V rms 60 A continuous 51 (2.01")W × 58 (2.28")H × 19 (0.75")D mm, 50 g (1.8 oz.) Signer (solid sec.) Signer (

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