

HIOKI

MEMORY HILOGGER LR8450

NEW



For multi-signal data integration

Electrical signals
Voltage, current, resistance

Environmental signals
Temperature, humidity

Mechanical signals
Strain, vibration

Vehicle communication
CAN, CAN FD

A wireless data logger built for a flexible test environment

Portable. Visible. On Site.



Benefits

ANYONE, ANYWHERE, ANY DATA

With a built-in display, measurement values are verified directly on site for immediate decisions.

Wireless connectivity reduces wiring constraints and allows flexible installation close to the DUT.

Interchangeable modules enable simultaneous acquisition of diverse signals within a single system.

Analysis software GENNECT Space

Online Manual

Plug-in modules

Data Logger
LR8450-01



Prevent measurement errors on-site and eliminate rework

Stand-alone operation with built-in display

From setup to recording, the system operates independently without a PC. With four plug-in slots and an integrated screen, values and waveforms can be checked immediately after wiring. This reduces the risk of discovering setup errors only after long-duration testing has begun, helping to avoid retesting and unnecessary labor loss.



A modular data logger built for flexible configurations

Eight interchangeable modules

The system supports eight types of modules, for various phenomena including voltage, current, resistance, temperature, vibration, strain, and CAN. Simply swap modules according to the measurement task to use a single logger across multiple applications. There is no need to prepare dedicated instruments for every test, reducing both capital investment and equipment management costs.



Images are for illustrative purposes only.



Freedom from wiring constraints for faster test preparation

Wireless distributed logging up to 30 m (line of sight)

Wireless modules can be positioned up to 30 meters from the logger. Placing modules close to the DUT shortens wiring length, reducing setup time and the risk of noise interference and connection errors. This improves efficiency for in-vehicle measurements and laboratory environments with measurement stations throughout the workspace.



Reliable design that protects data, even during wireless interruptions

Wireless modules with built-in backup memory

If wireless communication is interrupted, the module's internal backup memory stores up to five minutes of data and automatically retransmits it once communication is restored. Both the logger and modules can operate on battery power, providing added security during long-term or unattended measurements, even in the event of unexpected power loss.



More flexibility for diverse applications

Configure the modules to match your measurement needs. Even in field environments where DUTs and installation conditions frequently change, you can operate the system efficiently and adapt it quickly to new requirements.

Two logger models

Main Units

Plug-in module model
LR8450

Plug-in



LR8450

Up to 4 plug-in modules

Compatible with 8 types of plug-in modules

Up to 120 channels*1

Swap modules according to the application

*1: When using four U8552 modules

Wireless LAN model
LR8450-01

Plug-in



LR8450-01

Wireless



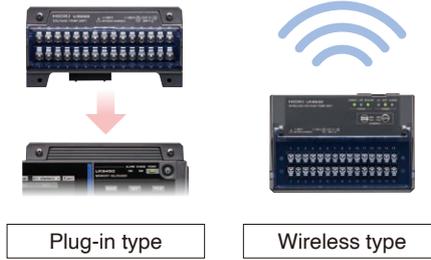
Up to 11 modules

Supports up to 4 plug-in modules and 7 wireless modules

Up to 330 channels*2

Automatic sampling synchronization between plug-in and wireless modules*3

*2: When using four U8552 modules and seven LR8532 modules
*3: Even under stable wireless conditions, sampling timing may shift by approximately 20 ms or more, depending on the RF environment.



8 measurement modules

Measurement Modules

Model name	Plug-in	Wireless	Input	Number of channels	Data refresh interval
VOLTAGE/TEMP UNIT	 U8550	 LR8530	Voltage, thermocouple, humidity (U8550)	15 ch	10 ms to 10 s
UNIVERSAL UNIT	 U8551	 LR8531	Voltage, thermocouple, humidity, RTD, resistance	15 ch	10 ms to 10 s
VOLTAGE/TEMP UNIT	 U8552	 LR8532	Voltage, thermocouple, humidity (U8552)	30 ch	10 ms to 10 s (1 to 15 ch) 20 ms to 10 s (16 to 30 ch)
HIGH SPEED VOLTAGE UNIT	 U8553	 LR8533	Voltage	5 ch	1 ms to 10 s
STRAIN UNIT	 U8554	 LR8534	Voltage, strain (strain-gauge-type converter, strain gauge)	5 ch	1 ms to 10 s
CAN UNIT	 U8555	 LR8535	CAN, CAN FD	2 ports (up to 500 ch)	10 ms to 10 s
CURRENT MODULE	 U8556	 LR8536	Current sensor (sold separately)	5 ch	1 ms to 10 s
THERMISTOR MODULE	 U8557	 LR8537	Thermistor, resistance	15 ch	50 ms to 10 s

Wireless Measurements, Multiple Locations

Supported: LR8450-01

Centralized data collection from measurement points across the workspace

Wireless communication between modules and logger

Unified time-based management across all channels

Reduced wiring complexity in distributed setups

With the LR8450-01, you can install wireless modules at each test equipment and collect all measurement data simultaneously in a single system. Both the logger and modules come with AC adapters. Optional battery operation is available for flexible installation and uninterrupted logging.



LR8450-01

Line-of-sight range:
30 m^{*1}



Logger battery operation
approx. 4 hours^{*2}
with BATTERY PACK Z1007 (sold separately)



Logger includes
AC adapter Z1014

Wireless modules include
AC adapter
Z1008



Wireless modules
Battery operation
approx. 9 hours^{*3}
with BATTERY PACK
Z1007
(sold separately)



Designed for
installation in
tight spaces

Deploy wireless modules at each test station

^{*1}: Communication range may be reduced if the LR8450-01 or wireless modules are placed directly on the floor or ground.

^{*2}: Approximate continuous operating time when one U8551 is connected and two Z1007 battery packs (sold separately) are used.

^{*3}: Approximate continuous operating time when the LR8530, LR8532, or LR8533 is powered by the Z1007 battery pack (sold separately).

Wireless connection between the logger and PC

The wireless module cannot be used while the logger is wirelessly connected to a PC.

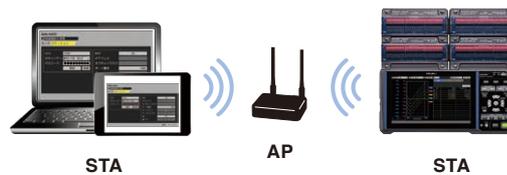
Access point mode

Direct wireless LAN connection to a PC



Station mode

Connection via a standard wireless access point



Operable from anywhere

The LR8450-01 can connect directly to a PC or tablet via wireless LAN. Measurement setup, start and stop control, real-time data monitoring, and data retrieval can all be performed through a standard web browser. No dedicated software installation or programming is required for remote monitoring.

Remote operation over a shared network

The LR8450-01 can connect to an existing wireless access point (AP) to extend communication range. By linking to a PC on the same network, measurements can be monitored and managed remotely from different locations within the facility.

PC Software GENNECT Space

Supported: LR8450, LR8450-01

Analysis software that integrates data from multiple instruments and links it to real-world events

GENNECT Space

Observe data and phenomena on a unified time axis

1 ms interval

3000 ch

30 instruments

LAN connection

CAN supported

Free software

Video captured with a standard USB camera or thermal camera can be synchronized with recorded measurement data. By viewing numerical changes alongside what physically occurred at that moment, you can understand the situation intuitively and in context.

↓ Available for download

Explore your measurement space with practical example data.

On the download page, please search for this application using "GENNECT Space" or "SF4300".

<https://cloud.gennect.net/dl>

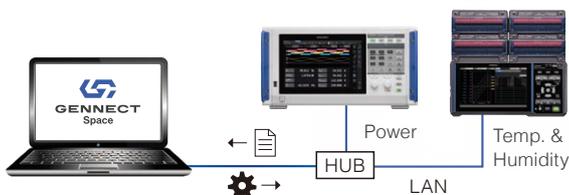


For Windows PC

Install Gennect Space SF4300 on your Windows PC

Data logging and real-time display

Real-time measurement and monitoring on a PC



Integrate multiple instruments without coding

Gennect Space is dedicated PC software for integrating data from multiple Hioki instruments. It enables high-speed data logging without programming skills.



- Simultaneous logging as quickly as 1 ms when combined with loggers, power analyzers, and other instruments



- Real-time graphical display of logging data



- Synchronized recording with video and map data*1 using standard USB cameras, thermal cameras, and GPS antenna
*1: In Version 1.0, map data may not be available in certain regions (China).



- Save logged data in binary (.grcd) or text (.csv, .txt) formats



- Change instrument settings remotely

Voltage and Temperature measurement

15 channels: screw terminal



VOLTAGE/TEMP UNIT
U8550

30 channels: push-button terminal



VOLTAGE/TEMP UNIT
U8552



WIRELESS VOLTAGE/TEMP UNIT
LR8530



WIRELESS VOLTAGE/TEMP UNIT
LR8532

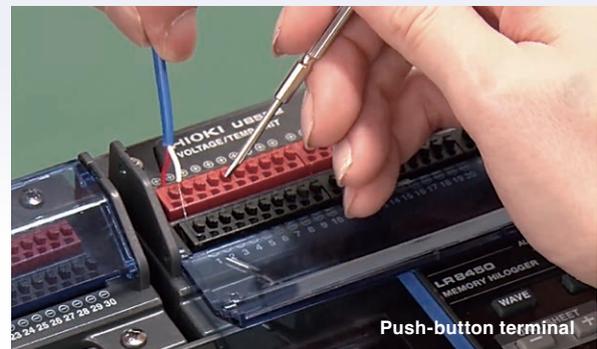
Basic specifications

Input voltage	±100 V DC
Input voltage	K, J, E, T, N, R, S, B, C
Humidity	5.0 to 95.0% RH, when using humidity sensor Z2000 (sold separately)
Data refresh interval	U8550, LR8530: 10 ms to 10 s (1 to 15 ch) U8552, LR8532: 10 ms to 10 s (1 to 15 ch), 20 ms to 10 s (16 to 30 ch)

Operating temperature range

Wireless module
-20°C to 55°C
(-4°F to 131°F)

Logger and plug-in module
-10°C to 50°C
(14°F to 122°F)



Push-button terminal

Designed for harsh temperature environments

For measurements inside environmental test chambers or vehicle cabins under low- and high-temperature conditions, the wireless modules are specified for an operating temperature range of -20°C to 55°C (-4°F to 131°F). Because they can be placed directly inside the chamber, wiring length can be minimized while evaluating products under conditions close to real-world use.

Terminal options to suit your application

Push-button terminals enable quick wiring without a screwdriver, helping reduce labor time. Screw terminals provide secure fastening, lowering the risk of disconnection or poor contact. This also helps prevent measurement issues such as short circuits caused by loose voltage leads during testing.

Voltage and Temperature measurement

15 channels: accurate temperature measurement with RTD sensors



UNIVERSAL UNIT
U8551

Plug-in

Voltage

Resistance

Temperature

Thermocouple

RTD

Humidity



WIRELESS UNIVERSAL UNIT
LR8531

Wireless

Voltage

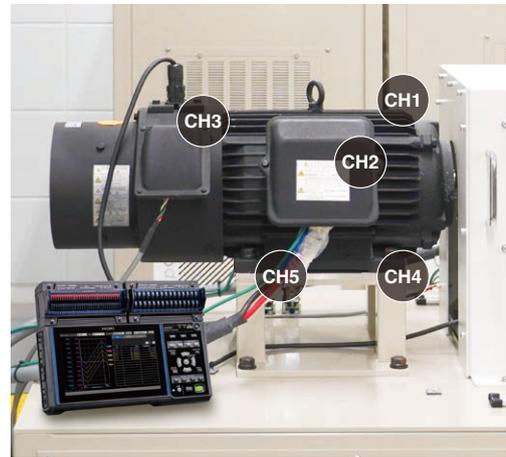
Resistance

Temperature

Thermocouple

RTD

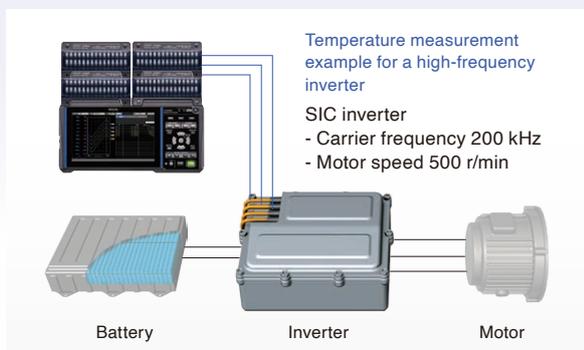
Humidity



As part of durability and performance testing, record temperature changes under a wide range of operating conditions. With a maximum channel-to-channel voltage and maximum rated voltage to ground of DC 300 V, thermocouples can be attached directly to metal surfaces with voltage present for measurement. For higher-accuracy temperature measurement, use RTD sensors.

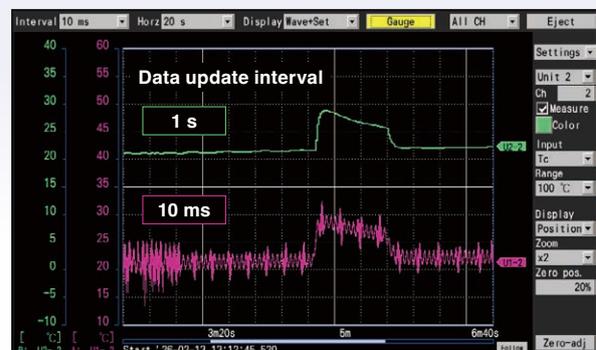
Basic Specifications

Input voltage	±100 V DC
Thermocouple	K, J, E, T, N, R, S, B, C
RTD	Pt100, JPt100, Pt1000
Resistance	0 to 200 Ω, ranges of 10 Ω, 20 Ω, 100 Ω, 200 Ω
Humidity	5.0 to 95.0% RH when using humidity sensor Z2200 (sold separately)
Data refresh interval	10 ms to 10 s (1 to 15 ch)



Stable measurement even in high-voltage and high-frequency environments

Even in environments where high voltage and high frequency currents are applied (e.g., in the development of inverters and motors), the LR8450 is not easily affected by noise and can perform stable measurements. High-sensitivity data that handles minute changes, such as temperature, can also be acquired with high reproducibility and minimal variation.



Data update interval settings suitable for the measurement target

Data update intervals are configured independently for each measurement module. When measuring high-speed phenomena such as vibration or switching signals together with temperature, set a slower update interval for the temperature channels. This reduces susceptibility to noise and ensures stable, reliable readings.

Temperature measurement with thermistors

15 channels: compatible with a wide range of thermistors



**THERMISTOR MODULE
U8557**

↓
Plug-in
Temperature
Thermistor
Resistance



**WIRELESS THERMISTOR MODULE
LR8537**

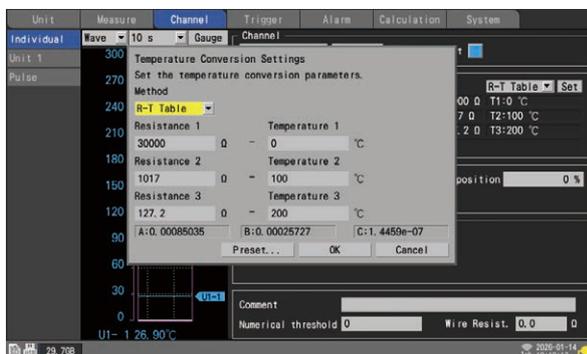
Wireless
Temperature
Thermistor
Resistance



Thermistors are often integrated into products to directly monitor internal temperature and operating status. The thermistor module supports design validation of products equipped with thermistors, as well as verification of temperature detection accuracy and functional performance.

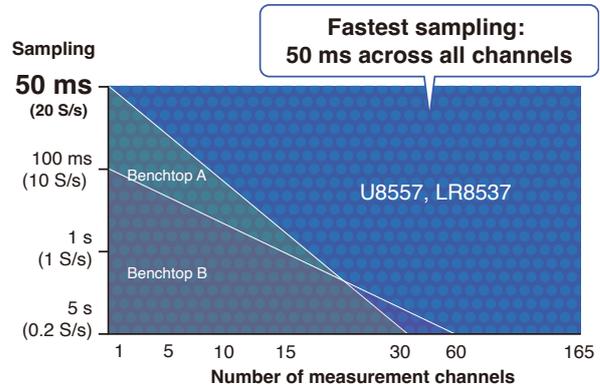
Basic Specifications

Thermistor	0 to 200 kΩ
Resistance	0 to 200 kΩ, ranges of 2000 Ω, 20 kΩ, 200 kΩ
Data refresh interval	50 ms to 1 s (1 to 15 ch)



Supports a wide range of thermistors

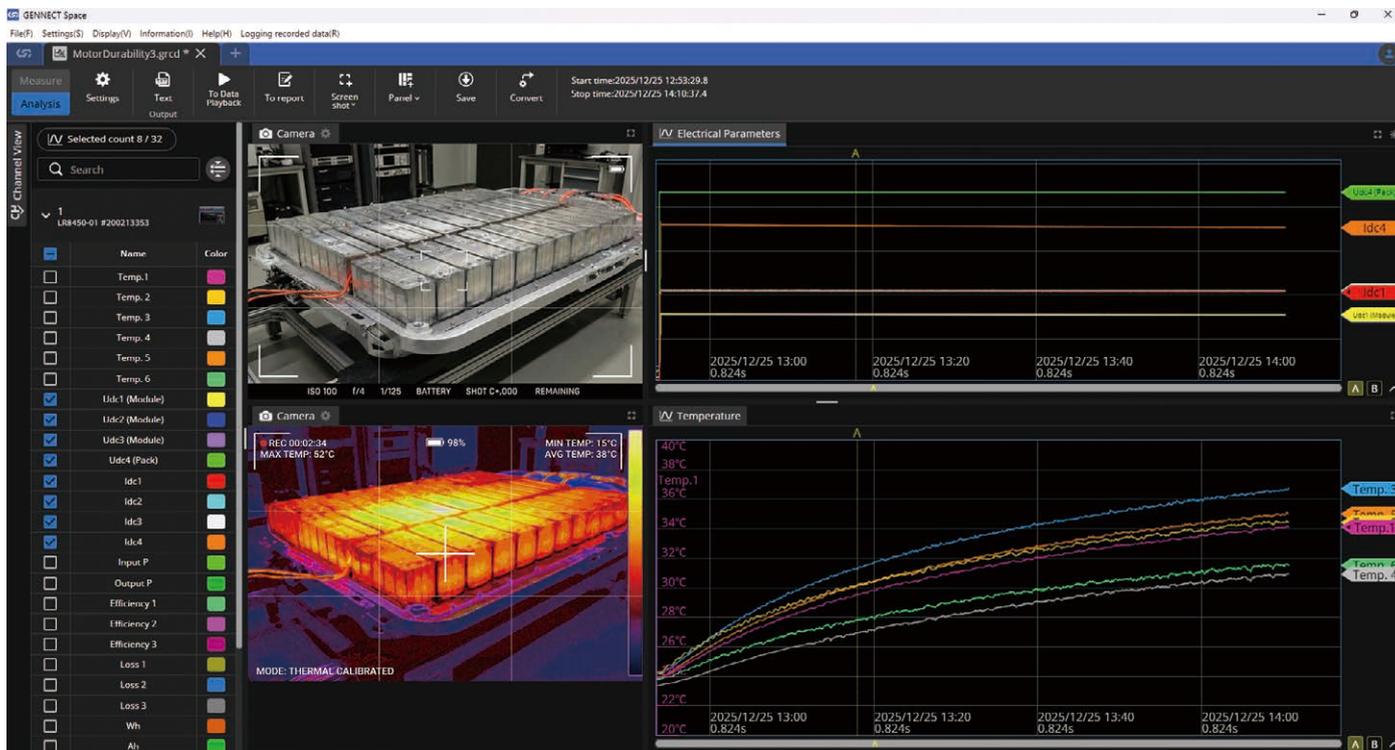
The thermistor module supports thermistors up to 200 kΩ. Temperature conversion can be configured using either the Steinhart–Hart equation or the B-parameter equation, depending on the thermistor characteristics. This flexibility minimizes sensor limitations and enables a broad range of evaluation and validation applications.



Multi-channel, high-speed sampling

All 15 channels measure simultaneously at intervals as fast as 50 ms. Expanding the system with up to 11 modules increases capacity to 165 channels without performance degradation. Even when the number of measurement points increases, temperature data can be recorded in synchronization with the BMS data update cycle of the battery pack.

Measurement application



Intuitive data analysis with synchronized video and thermal imaging

Gennect Space synchronizes data logger and power analyzer measurement data with video from a USB camera or thermal camera connected to a PC. By reviewing numerical data together with visual and thermal imaging, temperature distribution and changes can be understood intuitively during and after long-duration tests. This makes it easier to identify behavior and trends that are difficult to interpret from numbers alone, improving analysis and evaluation efficiency.



Battery pack evaluation

- Measurement of battery cell temperature distribution
- Verification of BMS thermistor measurements
- Cell temperature monitoring during charge and discharge testing



Application Note

https://www.hioki.com/global/learning/applications/detail/id_n1385378



Motor durability testing

- Internal motor temperature measurement
- Motor vibration measurement
- Resistance measurement of built-in thermistors



Application Note

https://www.hioki.com/global/learning/applications/detail/id_n1384362

Mechanical signal measurement

5 channels: mechanical signal recording, such as pressure sensors



Plug-in
Voltage

HIGH SPEED VOLTAGE UNIT
U8553



Wireless
Voltage

WIRELESS HIGH SPEED VOLTAGE UNIT
LR8533

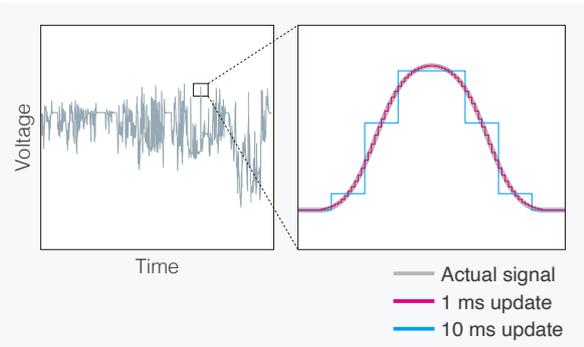


Mechanical signals such as pressure and load are key indicators that directly reflect the condition of equipment and systems. When recorded together with electrical signals and temperature data, they allow evaluation not only of what happened, but also why it happened, by correlating events on a common time axis.

Basic Specifications

Input voltage	±100 V DC
Data refresh interval	1 ms to 10 s (1 to 5 ch)

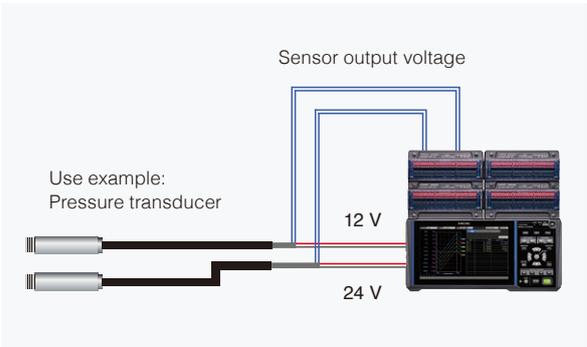
Evaluate pressure fluctuations and response delays over time



High-speed sampling captures transient changes

With sampling down to 1 ms, rapid changes in signals from pressure sensors and other mechanical sensors can be recorded reliably. The measurable signal frequency is typically in the range of several tens of hertz, making it suitable for analyzing dynamic mechanical behavior.

No separate sensor power supply required



Integrated power supply for external sensors

The logger includes two standard output terminals for powering external sensors. These can be used directly to drive pressure transducers and similar devices.
OUTPUT 1: 5 V, 12 V, 24 V (100 mA)
OUTPUT 2: 5 V, 12 V (100 mA)

Mechanical signal measurement

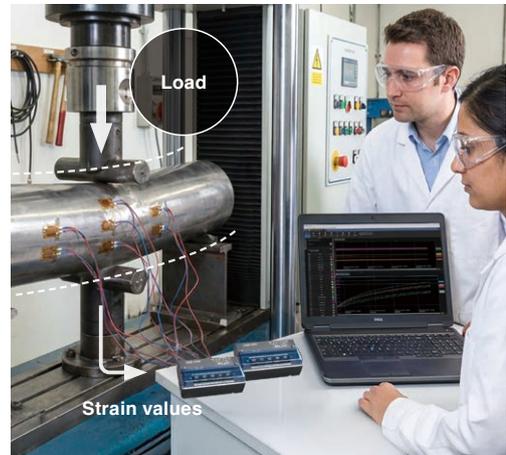
5 channels: measurement of strain gauge sensors



STRAIN UNIT
U8554



WIRELESS STRAIN UNIT
LR8534

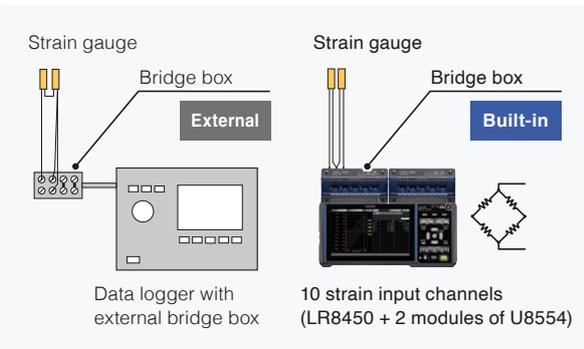


Strain refers to the deformation that occurs in a material or structure when stress or load is applied. By measuring strain, you can evaluate how a structure responds to load, identify mechanical limits, and detect early signs of abnormal conditions before damage occurs.

Basic Specifications

	Strain-gauge-type converter
Strain	Strain gauge for 1-gauge and 2-gauge method, 120 Ω (external bridge box required for 350 Ω) for 4-gauge method, 120 Ω to 1 kΩ
Data refresh interval	1 ms to 10 s (1 to 5 ch)

Acquire strain data without interrupting the test



Built-in bridge for direct strain gauge connection

An integrated bridge circuit allows strain gauges to be connected directly to the input terminals. No external amplifier or converter is required, enabling a simple measurement setup. Shorter wiring reduces susceptibility to noise in low-level strain signals and lowers the risk of disconnection, helping prevent unexpected test interruptions.

Connect various strain sensors with confidence



Guided configuration for easy setup

The module supports a wide range of strain sensors, including 1-gauge (2-wire and 3-wire), 2-gauge, and 4-gauge configurations; and strain-gauge-based transducers. Setup is guided by the configuration menu, and switching the module's selector is all that is required to complete the connection.

Mobility measurement

2 ports: CAN or CAN FD measurement



CAN UNIT
U8555



WIRELESS CAN UNIT
LR8535

Streamline ECU evaluation



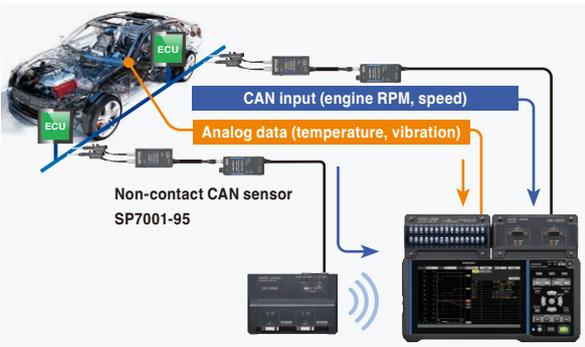
In addition to CAN measurement modules, Hioki offers the proprietary non-contact CAN sensor SP7001. Using the SP7001, detect CAN and CAN FD signals directly through the cable insulation. This eliminates the need to strip wires or use branch cables, significantly reducing wiring time and effort.

Basic Specifications

CAN	CAN (ISO11898), CAN FD (ISO11898), CAN FD (non-ISO)
Data refresh interval	10 ms to 10 s
Number of channels	50 ch (10 ms sampling) 500 ch (100 ms sampling)

Connection limitations
A maximum of four CAN modules can be connected to the main unit.

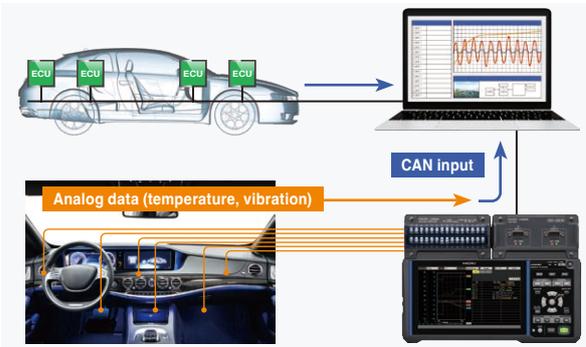
Synchronize vehicle behavior and control status



Acquire CAN data together with analog measurements

CAN/CAN FD data output from ECUs and control units can be converted into analog waveforms and displayed in real time. Vehicle speed, motor speed, and control signals can be recorded on the same time axis as analog measurements such as voltage and temperature. One module can receive up to 500 IDs (at a 100 ms recording interval).

Integrate voltage and temperature data into higher-level systems



Output analog measurements as CAN signals

The U8555 can output analog measurement values, such as voltage and temperature, as CAN signals with data update cycles as fast as 1 ms. Transmitting data over CAN enables integration and centralized management within higher-level systems that handle ECU and system CAN communication.

CAN signals output is available only with the U8555. The LR8535 does not support CAN output.

Mobility measurement

5 channels: current measurement



Plug-in
Current

CURRENT MODULE
U8556



Wireless
Current

WIRELESS CURRENT MODULE
LR8536

Current sensors tailored to your measurement scenario

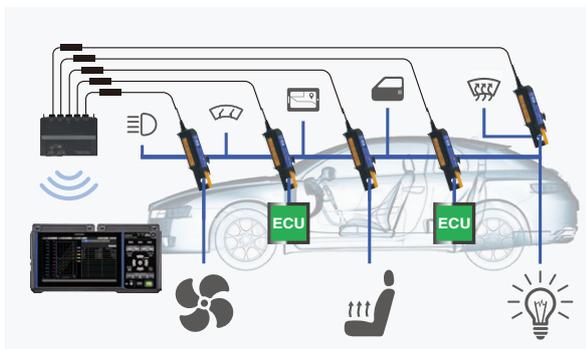


Select clamp-on current sensors to match your application, from low-level currents to high-current systems. With a wide lineup ranging from 2 A to 6,000 A rated current, the system supports applications from vehicle ECU evaluation to high-current power line measurements.

Basic specifications

Current range	Refer to the current individual sensor's rating
Measurement item	Instantaneous value, RMS value (switchable)
Data refresh interval	1 ms to 10 s (1 to 5 channels)

Measure multiple circuit currents without modifying vehicle wiring



Multiple current measurements

By connecting Hioki clamp current sensors, current measurement can be performed without cutting or altering wiring. One module supports up to five current sensors simultaneously, enabling multi-channel recording of ECU or onboard device consumption. This makes the system suitable for in-vehicle evaluation and measurements on existing systems.

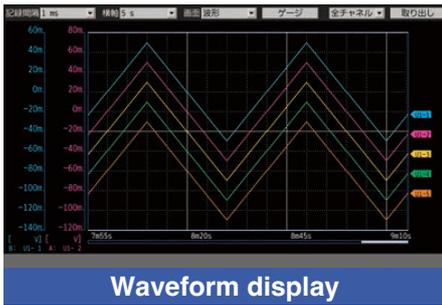
Stable long-term measurement with low-drift sensors



Long-duration measurement with low-drift current sensors

Hioki clamp current sensors offer minimal offset drift due to ambient temperature changes, making them well suited for long-duration measurements. Continuous monitoring of ECU and electrical device current consumption helps identify early signs of abnormal behavior and changes in power usage.

Interfaces



Waveform display

Clear visualization of the waveforms

Ch	40s	MAX	MIN	AVE	P-P
UI-1	1.255mV	1.255mV	0.000mV	0.626mV	1.255mV
UI-2	1.255mV	1.255mV	0.000mV	0.626mV	1.255mV
UI-3	1.255mV	1.255mV	0.000mV	0.626mV	1.255mV
UI-4	1.255mV	1.255mV	0.000mV	0.626mV	1.255mV
UI-5	1.255mV	1.255mV	0.000mV	0.626mV	1.255mV
UI-6	1.255mV	1.255mV	0.000mV	0.626mV	1.255mV
UI-7	1.255mV	1.255mV	0.000mV	0.626mV	1.255mV
UI-8	1.255mV	1.255mV	0.000mV	0.626mV	1.255mV
UI-9	1.255mV	1.255mV	0.000mV	0.626mV	1.255mV
UI-10	1.255mV	1.255mV	0.000mV	0.626mV	1.255mV
UI-11	1.255mV	1.255mV	0.000mV	0.626mV	1.255mV
UI-12	1.255mV	1.255mV	0.000mV	0.626mV	1.255mV
UI-13	1.255mV	1.255mV	0.000mV	0.626mV	1.255mV
UI-14	1.255mV	1.255mV	0.000mV	0.626mV	1.255mV
UI-15	1.255mV	1.255mV	0.000mV	0.626mV	1.255mV

Numerical Display

Instantaneous and maximum values can be checked on one screen



Alert display

Graphical indication of alert status

Clear visualization

Waveform + numeric display

XY + numeric display

View waveforms while confirming key values simultaneously



External control terminals and interfaces

Use example: Flow rate sensor

pulse signals

8 channel pulse measurement

Motor speed, flow rate integration, etc.

In "Revolve" mode, you can monitor production equipment by measuring the variations in revolution speed of motors or drills. In "Count" mode, you can identify operation status by acquiring integrated power or flow rate.

Input signals

Alarm

Slope

Level

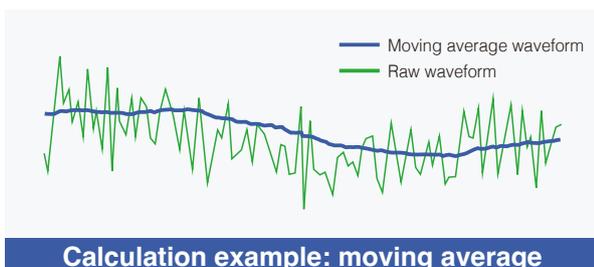
Time

Set the level and time. It generates an alarm if the reading exceeds the preset rate of change (level/time).

8 alarm output channels

Useful in preventive maintenance

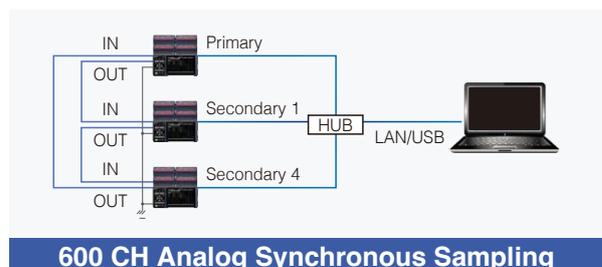
You can set alarm output for eight channels. You can set a level, a window, a slope, and a logic pattern on channels you wish to monitor.



Calculation example: moving average

Numerical and waveform calculation function

A wide range of calculations is available, including maximum and minimum values, ON/OFF time, event count, and duty cycle. The logger performs numerical and waveform calculations during measurement, and displays and records the results in real time as dedicated channels.

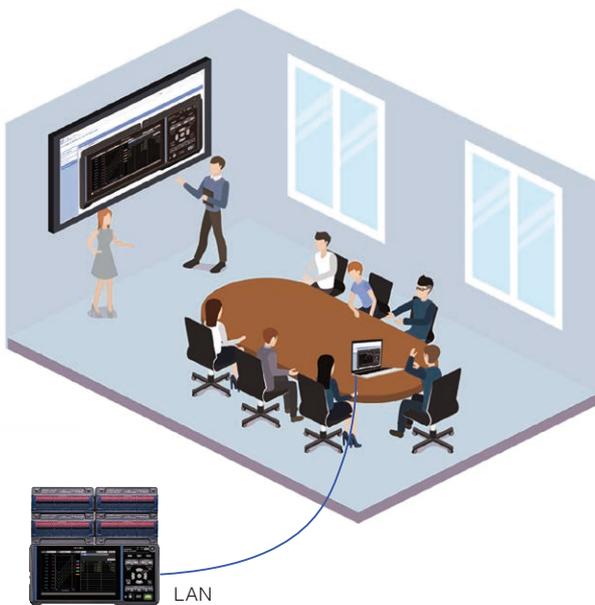


600 CH Analog Synchronous Sampling

Connect and measure with up to 5 modules

Synchronized sampling of up to 5 plug-in modules (600 analog channels) can be measured when multiple LR8450's external sync terminals (SYNC.IN, SYNC.OUT) are connected. (This function cannot be used when wireless modules are connected.)

Remotely control and capture data on a PC



FTP server function

Download data files onto a PC

Your PC can get files from inside the SD memory card or USB drive connected to the LR8450/LR8450-01.

FTP client

Automatically transfer data files to an FTP server

Automatically transmit data files to an FTP server from the SD memory card or USB drive inserted to the LR8450/LR8450-01.

HTTP server function

Control the instrument remotely from a PC

Use a standard Web browser to control the LR8450/LR8450-01, start and stop measurement, then enter comments.

NTP client

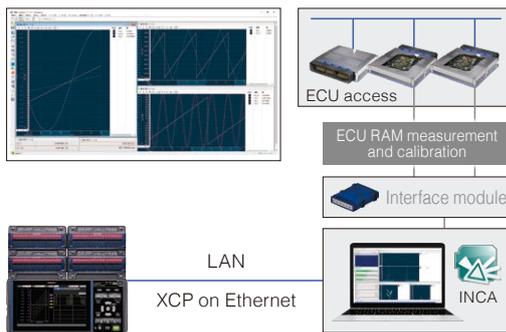
Synchronize the time, correct the sampling interval

You can synchronize the clock of the LR8450 main unit with an NTP server on the network. This corrects the sampling timing during measurement, minimizing the discrepancy between the actual time and the sampling time.

Use with third-party software

Output measured values using XCP on Ethernet

The LR8450 supports XCP Secondary operation based on the XCP protocol, a standard developed by the Association for Standardization of Automation and Measuring Systems (ASAM). You can control the start and stop of measurements and acquire measured values using an XCP Primary. (Measured values from CAN modules cannot be output.)



Load data using MDF-compatible waveform viewers

Current, voltage, temperature, strain, CAN, and other measurement data captured by the LR8450 can be saved in the Measurement Data Format (MDF) and loaded by other software that support the format.

Commercially available software

FAMOS

- More than 400 calculation processing variables
- Easy report creation functionality

FlexPro

- Functionality ranging from searching and loading of data to analyzing and creating of reports
- Dialog-based interface

NI DIAdem

- High-speed search and processing of large volumes of data
- Share analysis templates within your company

Logger Utility

[Download from Hioki website.](#)

Collect data at sampling speeds as fast as 10 ms on a PC*



10 ms interval

600 ch

5 loggers

LAN/USB connection

CAN not supported

- Simultaneous logging of up to five LR8450 units at 10 ms
- Real-time graphical display of logging data
- Up to 600 recording channels plus 60 waveform calculation channels
- Import .mem files recorded on the logger

*Real-time measurement and viewing of waveform data from CAN modules U8555 and LR8535 are not supported. Please use the GENNECT One software for real-time viewing of CAN data from the U8555 and LR8535.

Selection guide

Step 1

Select the logger (main unit)

LR8450 and LR8450-01 cannot perform measurements by themselves. Measurement modules must be purchased separately.



Supports up to four
plug-in modules
*Wireless modules not supported

Plug-in module model
LR8450



Supports up to four
plug-in modules
plus up to seven
wireless modules

Wireless LAN model
LR8450-01

The LR8450-01 and all wireless modules emit radio waves. Use of radio communication requires approval in each respective country. Operation in countries where approval has not been obtained may involve local regulations and/or result in penalties. For the latest information on approved countries, please refer to the Hioki website.

Step 2

Select measurement modules > See page 5 for details

Please note that the LR8450 plug-in model does not support wireless modules.

	Voltage/Temp Unit	Universal Unit	Voltage/Temp Unit	High Speed Voltage Unit	Strain Unit	Can Unit*1	Current Module	Thermistor Module
Plug-in	 U8550	 U8551	 U8552	 U8553	 U8554	 U8555	 U8556	 U8557
Wireless	 LR8530	 LR8531	 LR8532	 LR8533	 LR8534	 LR8535	 LR8536	 LR8537

*1: A maximum of four CAN modules can be connected simultaneously.

Step 3

Battery and storage media

The use of battery packs is recommended for both the logger and wireless modules. When used together with the supplied AC adapter, battery operation helps prevent data loss in the event of a power outage.

Power supply



BATTERY PACK Z1007
Logger takes two. Wireless modules take one.

Storage media



SD MEMORY CARD Z4001
2 GB capacity



SD MEMORY CARD Z4003
8 GB capacity



USB DRIVE Z4006
16 GB, long-life, high-reliability SLC flash memory

Always use Hioki accessory storage media. Proper operation is not guaranteed when using storage media from other manufacturers, and may prevent the product from saving and loading data properly.

Maximum recording time (estimate)

Because the header portion of waveform files is not included in capacity calculations, the expected actual maximum time is about 90% of that in the timetables. The maximum recording time varies with the number of measurement channels. Recording times are doubled if the number of measurement channels shown in the table is halved.

- When recording 30 analog channels with two U8550/U8551 modules or one U8552 module (no alarm output, no waveform processing)
- When recording 30 analog channels with two LR8530/LR8531 modules or one LR8532 module (no alarm output, no waveform processing)

Recording intervals	Internal buffer memory (512 MB)	SD MEMORY CARD Z4001 (2 GB)	SD MEMORY CARD Z4003 (8 GB)	USB DRIVE Z4006 (16 GB)
10 ms	1 d	3 d 20 h	15 d 8 h	30 d 12 h
100 ms	10 d 8 h	38 d 18 h	153 d 9 h	305 d 5 h
1 s	103 d 13 h	387 d 12 h	1533 d 21 h	3052 d 9 h
10 s	500 d	3875 d 6 h	15339 d 3 h	30523 d 19 h

- When recording 330 channels with four U8552 modules and seven LR8532 modules (no alarm output, no waveform processing)

Recording intervals	Internal buffer memory (512 MB)	SD MEMORY CARD Z4001 (2 GB)	SD MEMORY CARD Z4003 (8 GB)	USB DRIVE Z4006 (16 GB)
20 ms	4 h 31 min	17 h 14 min	2 d 18 h	5 d 13 h
100 ms	22 h 35 min	3 d 14 h	13 d 20 h	27 d 17 h
1 s	9 d 9 h	35 d 22 h	138 d 17 h	277 d 11 h
10 s	94 d 3 h	359 d 13 h	1388 d 9 h	2774 d 19 h

Options

Current sensors compatible with the current module

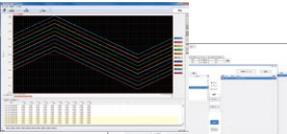
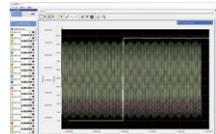
- Output connector: HIOKI PL14
- Selectable from leakage current values up to 6,000 A, depending on the application
- Switchable between instantaneous values or RMS values recording in the logger's current module settings

AC DC							
	Φ 5 mm	Φ 5 mm	Φ 33 mm	Φ 33 mm	Φ 55 mm		
	2 A	20 A	100 A	600 A	2000 A		
	CT7812	CT7822	CT7731	CT7736	CT7742		
AC							
	Φ 15 mm	Φ 15 mm	Φ 40 mm	Φ 46 mm	Φ 100 mm	Φ 180 mm	Φ 254 mm
	60 A	100 A	6 A (For leakage current)	600 A	6000 A	6000 A	6000 A
	CT7126	CT7131	CT7116	CT7136	CT7044	CT7045	CT7046

Cables and other sensors

				
LAN CABLE 9642	HUMIDITY SENSOR Z2000	CAN CABLE 9713-01	NON-CONTACT CAN SENSOR SP7001-95	
Straight Ethernet cable, supplied with straight-to-cross conversion adapter, 5 m (16.4 ft.)	Analog output, 3 m (9.84 ft) length	For U8555, LR8535, Unprocessed on one end, 1.8 m (5.9 ft.)	Supports CAN FD / CAN signals, SP7001, SP9250, SP7150 set	
				
CARRYING CASE C1012	FIXED STAND Z5040	POWER CABLE L1012	AC ADAPTER Z1014	AC ADAPTER Z1008
Accommodates instrument and four plug-in modules or seven wireless modules	For installing logger on wall	DC drive, Connect to external battery, Unprocessed ends, Approx. 2 m (6.6 ft.)	AC adapter is bundled with the LR8450, LR8450-01	AC adapter is bundled with the wireless modules
			Included accessory	Included accessory

Software

		
Download from Hioki website.	Download from Hioki website.	Download from Hioki website.
LOGGER UTILITY	GENNECT One	GENNECT Space
The control of the measurement of loggers, real-time data collection	1 s interval data logging. Real-time graphical display of measured values. Centralized monitoring with dashboard functionality.	High-speed data logging at 1 ms. Synchronized recording with video and map data using USB-connected cameras and GPS antennas.
CAN EDITOR		
CAN measurement setup		

