ΗΙΟΚΙ

MEMORY HILOGGER LR8450

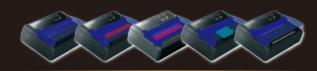


Wireless data logging at 1 ms

330-channel portable logger available with your choice of plug-in and wireless units



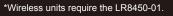
Plug-in units



Wireless units

LR8450, LR8450-01, and plug-in units : Q1 2020

Wireless units : Q2 2020

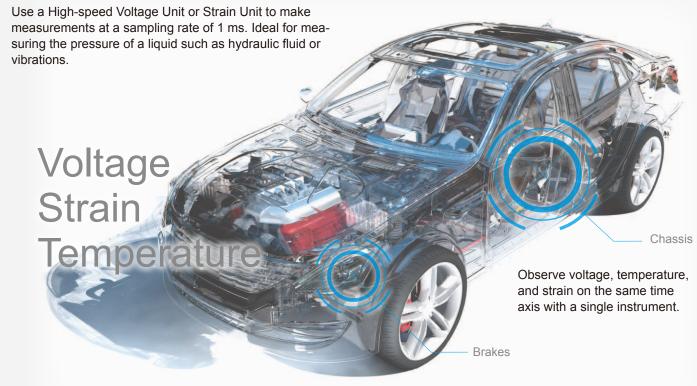




Multichannel 1 ms sampling

Measure dynamic strain wirelessly

*Maximum temperature measurement sampling rate: 10 ms+





Is it possible to measure strain wirelessly?

Typically, wiring for strain gauges ends up being several meters long, and multi-channel setups are prone to wire breaks and hard to install...



Yes, you can measure strain wirelessly with a 1 ms sampling rate.

Connect the LR8450 to a total of up to 11 strain units, including 4 plug-in units and 7 wireless units. Since each unit provides 5 channels of input, you can measure strain across a total of 55 channels.

*Wireless units require the LR8450-01.

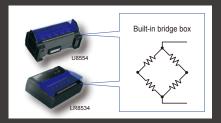
Compact, A4-size profile

Thanks to a thin, A4-size form factor, the logger can be placed anywhere. The small size is also convenient for onboard testing in vehicles.



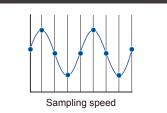
Plug-in strain gauges

STRAIN UNIT consist of a built-in bridge box so that strain gauges can be connected directly to the input terminals.



No drop-off in sampling speed

Each unit has its own A/D converter, ensuring you realize the maximum sampling speed even when you add more units.



Log up to 330 channels

Add channels freely via either plug-in or wireless units.

Connect a maximum of 11 units at once, including 4 plug-in units and 7 wireless units.

330 channels: Four U8552 (30-channel) units and seven LR8532 (30-channel) units (using LR8450-01 with wireless LAN)

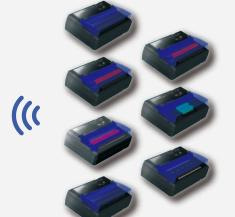
Plug-in units

Connect one to four plug-in units (select from five models).



Wireless units

Then connect up to seven wireless units (select from five models; use with LR8450-01 only).

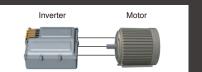




Capture measured values that don't fluctuate

Voltage

Compared to legacy products, the impact on measured values of high applied voltages and frequencies during temperature measurement of inverters and highfrequency furnaces has been significantly reduced.



Configure filters on a unit-by-unit basis

The logger lets you configure filters for each individual unit. Filter operation is linked to the data refresh rate.

Reduce the effects of noise by lowering the data refresh rate of only those units that measure slow signals such as temperature and then applying a strong filter to their data.

Access moving averages in real time

Moving averages provide an effective way to view fluctuating waveforms while eliminating the effects of instantaneous noise. With the LR8540, you can calculate moving average while measurement is in progress. And since you can save the resulting moving average data to a different channel from the raw waveform, you can also review the raw waveform at the same time.



Product specifications	LR8450-01 (Wireless LAN equipped model, main unit only)	LR8450 (Standard model, main unit only)	
Maximum number of connect- able units	4 plug-in units + 7 wireless units	4 plug-in units	
	Units sold separately. Purchase one or more optional units as the logger is not capable of standalone measurement.		
Number of expandable chan- nels	Max. 330 (U8552 × 4 plug-in units + LR8532 × 7 wireless units)	Max. 120 (U8552 × 4 plug-in units)	
Display	7-inch TFT color LCD		
LAN interface (1000Base-T)	<i>,</i>		
Wireless LAN interface	✓ (Can connect wirelessly to PC or tablet when not using any wireless units)	-	
USB interface (data transfer)			
USB interface (USB drive, keyboard, hub)			
SD card slot			
Pulse input	8 channels		
Warning output	8 channels		
Operating temperature range	Logger and plug-in units: -10°C to 50°C Wireless units: -20°C to 60°C		
PC application	Logger Utility		

Measurement units (optional)

Product	Plug-in model	Wireless model	Specifications
VOLTAGE/TEMP UNIT	U8550	LR8530	 Number of channels: 15 (scanning) Maximum sampling (data refresh) rate: 10 ms Measurable parameters: Voltage, thermocouple, humidity (when using the Z2000 Humidity Sensor) Input terminals: Terminal block with M3 screws
UNIVERSAL UNIT	U8551	LR8531	 Number of channels: 15 (scanning) Maximum sampling (data refresh) rate: 10 ms Measurable parameters: Voltage, thermocouple, humidity (when using the Z2000 Humidity Sensor), resistance thermometer sensor (Pt100, PT1000, JPt100), resistance Input terminals: Push-button terminal block
VOLTAGE/TEMP UNIT	U8552	LR8532	 Number of channels: 30 (scanning) Maximum sampling (data refresh) rate: 10 ms (when using 15 or fewer channels) 20 ms (when using 16 to 30 channels) Measurable parameters: Voltage, thermocouple, humidity (when using the Z2000 Humidity Sensor) Input terminals: Push-button terminal block
HIGH SPEED VOLTAGE UNIT	U8553	LR8533	 Number of channels: 5 (scanning) Maximum sampling (data refresh) rate: 1 ms Measurable parameters: Voltage Input terminals: Terminal block with M3 screws
STRAIN UNIT	U8554	LR8534	 Number of channels: 5 Maximum sampling (data refresh) rate: 1 ms Measurable parameters: Strain (1-gauge/2-wire, 1-gauge/3-wire, 2-gauge adjacent sides, 4-gage), voltage Built-in bridge box (120 Ω, bridge voltage of 2 V DC) Input terminals: Push-button terminal block

The LR8450-01 and each wireless unit emit radio waves. Use of radio waves is subject to licensing requirements in certain countries. Using it in a country or region other than the above may violate the law and may result in legal penalties for the operator. Wireless certification countries: Japan, United States, Canada, European Union and Others

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