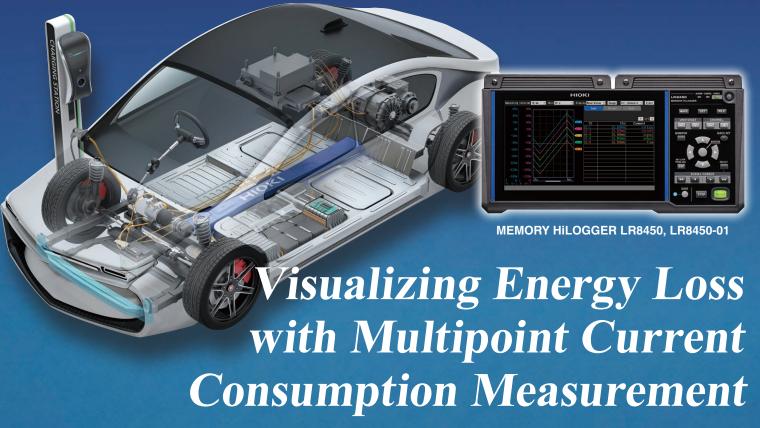
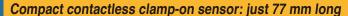


MEMORY HiLOGGER LR8450, LR8450-01 Current Measurement Solutions for EV Development



To reduce EV energy loss and extend driving range, it's necessary to make high-accuracy measurements. This ensures that non-drivetrain energy is also used efficiently.

By combining the Hioki Memory HiLogger LR8450 with a current module and AC/DC current sensor, you can measure and record current at multiple points. Analyzing data accurately is key to reducing energy consumption.



AC/DC CURRENT SENSOR CT7812 (2A AC/DC) CT7822 (20A AC/DC)





Compact, contactless, and high-accuracy

Multiple sensors can be easily installed, even in confined spaces and locations with complex wiring.



Broad operating temperature range

Thanks to the operating temperature range of -40°C to 85°C, low-level DC current can be measured with a high degree of accuracy, even in environments where the ambient temperature

Two current module types: Wireless and plug-in

WIRELESS CURRENT MODULE LR8536



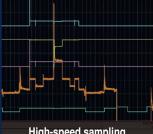
NEW **CURRENT MODULE** U8556





Extended measurement on battery power

Up to five sensors can be connected to a single current module. Wireless modules can operate on battery power for 5 hours or more.



High-speed sampling

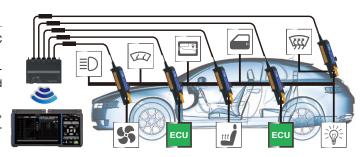
Five channels can be measured simultaneously with a sampling speed of up to 1 ms. As a result, you can capture even momentary changes in current value.

Current sensing solutions

1 Extended, simultaneous recording of multipoint current data

Reduce energy consumption

- · Simultaneously record up to 55 channels of multipoint AC/DC current measurement data (when using the LR8450-01)
- · By ascertaining how much current is used at a particular location, you can make improvements to use energy efficiently and reduce energy use
- · Measure a broad range of current magnitudes, from large, high-current-consumption pumps and air-conditioning compressors to low-current-consumption interior accessories and ECUs



2 Slide-action clamp/release sensors

Dramatically reduce man-hours

- · Compact, contactless clamp-on sensors can be easily connected to cables in confined locations
- · Use a wireless module to dramatically reduce wiring man-hours



3 Simultaneous recording of various phenomena Comprehensively analyze entire vehicles

- · Simultaneously verify minuscule current of ECUs in sleep-mode
- · Combine with an extensive range of available LR8450 measurement modules to simultaneously record variations in driving conditions and current consumption
- · Entire vehicle analysis by combining CAN signal data with measured current consumption and other phenomena such as vibrations and temperature

Principal Specifications



NEW Current Modules	777 CF	0000
	WIRELESS CURRENT MODULE LR8536	CURRENT MODULE U8556
Туре	Wireless (Battery operation: 5 h or more)	Plug-in
Number of channels	5 (simultaneous sampling of all channels)	
Data refresh period	1 ms	
Measurement targets	DC current, AC current (RMS) Varies with current sensor used	
Input terminal	Hioki PL14	

Data Loggers		
	MEMORY HILOGGER LR8450-01	MEMORY HILOGGER LR8450
Туре	Model with wireless LAN	Standard model
Maximum number of connectable modules	4 plug-in modules + 7 wireless modules	4 plug-in modules
	Modules are sold separately	
Maximum number of current channels	Up to 55 With U8556(plug-in) × 4 + LR8536(wireless) × 7	Up to 20 With U8556(plug-in) × 4
Pulse input	8 channels	
Alarm output	8 channels	

Combined accuracy				
AC/DC CURRENT SENSOR CT7812				
Range	Resolution	Instantaneous		

Range	Resolution	Instantaneous value (DC)
2.0000 A	0.0002 A	±0.38% rdg. ±0.0037 A
200.0 mA	0.1 mA	±0.38% rdg. ±2.4 mA

■ AC/DC CURRENT SENSOR CT7822

Range	Resolution	Instantaneous value (DC)
20.000 A	0.002 A	±0.38% rdg. ±0.037 A
2.000 A	0.001 A	±0.38% rdg. ±0.024 A

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