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ΗΙΟΚΙ

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Compact, 2-channel logging modules For the Wireless Logging Station LR8410-20

WIRELESS MINI LOGGER SERIES



Measure more than ever with our expanding lineup! Effortless Data Logging

Clutter-free wireless connection
 Compact, 2-channel modules
 Full lineup supports a wide variety of applications



Collect data on your tablet!

Use your tablet*, smartphone*, or PC via Bluetooth® to collect data from Wireless Mini Loggers. (*AndroidTM only) Transfer data even during recording, or check data and fluctuating waveforms on the spot.



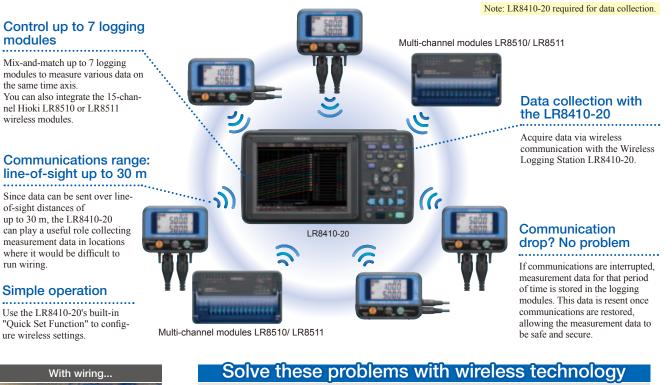
CE

Countries and regions where wireless operation is currently supported: Japan, U.S.A., Canada, EU, Norway, Switzerland, Turkey, Russia, Vietnam, and India

Countries and regions where wireless operation will be supported soon: Shingapore, Thailand and Indonesia

Clutter-free Wireless Connection

Install the Wireless Mini Logger near the measurement target. Send the measurement data to the LR8410-20 via Bluetooth® wireless technology. Only minimal wiring is required, making installation simple and keeping the area neat and organized.





such as the ceiling or under the floor.

Easy to install in difficult-to-reach places

Exterior wiring is not necessary, so you can close windows and doors to maintain airtightness.



Attach onto moving objects (vehicles, machines, etc.).

Compact 2-channel Modules

1/4th the volume of the Multi-channel Logging Modules LR8510/ LR8511*. Smaller and thinner, it can be installed in narrow spaces that couldn't be reached before. Plus, with 2 channels per module, it's a breeze to perform measurements on both channels in multiple locations. (*The LR8513, LR8515 is 1/3 the size compared to the LR8510/ LR8511.)

less noise is picked up



Full Lineup Supports a Wide Variety of Applications

Now also available - pulse and current loggers in addition to voltage and temperature modules. Measure multiple channels of voltage and temperature fluctuations, flow, or electric power on the same time axis with ease.

WIRELESS PULSE LOGGER LR8512

Air conditioning (flow rate), automobiles (flow rate, vehicle speed), cogeneration (flow rate)

> Non-voltage "a" contact (always-open contact point), open collector, or voltage input (0 to 50 V)

For pulse totalization and measuring logical ON/OFF signals or revolutions

c N	No. of input channels	2 channels (common GND)	Supported input format	Non-voltage "a" contact (always-open contac point), open collector, or voltage input (0 to 50
	Measurement	tions, logic (Records an 1/0 for each record- ing interval) Totalization: 1000M pulse f.s. (1 pulse) No. of revolutions: 5000/n[r/s]f.s. (1/n[r/s])	Recording intervals	0.1 to 30 sec, 1 to 60 min, 16 selections
			Recording modes	Instantaneous value
	Measurement		modes	
			Dimensions	85W×61H×31D mm (3.35W×2.40H×1.22D
			Weight	95 g (Not including the battery)

0	
Recording modes	Instantaneous value
Dimensions	85W×61H×31D mm (3.35W×2.40H×1.22D in)
Weight	95 g (Not including the battery)

WIRELESS CLAMP LOGGER LR8513

PV maintenance, automobile tests, forklifts, railroads, equipment maintenance

For simple power measurement using voltage and power factor data as well as AC and DC load current and AC leak current measurement

No. of input channels	2 channels (common GND)	
Measurement	AC load current, DC load current	
items	AC leak current (using current sensor) Software calculates the true RMS value	
Effective value calculation		
Measurement ranges	AC500.0 mA to 2000 A (By current sensor) DC10.00 A to 2000 A (By current sensor) *Current and leak current that occur intermittently cannot be measured.	

No. of input

Measurement

channels

items

Measurement accuracy	±0.5% rdg.±5 dgt. (DC, AC 50/60 Hz) *Add the sensor's accuracy when the current sensor is connected	
Recording intervals	0.5 to 30 sec, 1 to 60 min, 14 selections	
Recording modes	Instantaneous value, average value	
Dimensions	85W×75H×38D mm (3.35W×2.95H×1.50D in)	
Weight	130 g (Not including the battery)	

WIRELESS HUMIDITY LOGGER LR8514

2 ch for temperature + 2 ch for humidity

(2 sensors can be attached)

Temperature, humidity

Recording intervals 0.5 to 30 sec, 1 to 60 min, 14 selections

Convenient for recording the surrounding temperature and humidity when using the LR8410-20 to conduct research and experiments

Environmental testing, construction, factories, storage, agricultures

95 g (Not including the battery)

Instantaneous value



Various tests for electronics/automobiles/transportation, WIRELESS VOLTAGE/ TEMP LOGGER LR8515 **PV** maintenance

Recording

Dimensions

modes

Weight

Supports voltage input and thermocouple types K and T

				1 mgg in
No. of input	2 ch	Recording intervals	0.1 to 30 sec, 1 to 60 min, 16 selections	Scheduled for release in
channels	(select voltage or thermocouple for each channel)	Recording	I	Spring 2015
Measurement items	Voltage/Thermocouple (K, T)	modes	Instantaneous value	Spring 200
Input terminals	M3 screw type terminal block (2 terminals per channel)	Dimensions	85W×75H×38D mm (3.35W×2.95H×1.50D in)	there are a second and
Measurement	Voltage: 50 mV/500 mV/5 V/50 V	Weight	140 g (Not including the battery)	
ranges	Thermocouple: 1000°C (1832°F)		*Thermocouples are not included with the instrument.	

Continuous operating time (Battery) *Use of the AC adapter is recommended when recording data over an extended period of time.

	WIRELESS PULSE LOGGER LR8512	WIRELESS CLAMP LOGGER LR8513
When measuring at the fastest recording interval, in real-time	5 day (recording interval 0.1 secs)	5 day (with instant value recording, recording interval 0.5 secs)
Recording interval of 1 sec, Bluetooth® ON	14 days	10 days (for instant value recording)
Recording interval of 1 min, Bluetooth® OFF	2 months	3 months (for instant value recording)

• Accuracy guarantee: 1 year. • Communication: Bluetooth[®]2.1 + EDR communication • Communications range: 30 m, line-of-sight

- Internal memory: Nonvolatile memory (Flash memory) Storage capacity: 500,000 data items for each channel
- Standard compliance: Safety EN61010, EMC EN61326 class A/EN61000-3-2 /EN61000-3-3
- ecifications nared • Countries where wireless certification has been acquired: Japan, U.S.A., Canada, EU, Norway, Switzerland, Turkey, Russia, Vietnam, and India • Vibration endurance: JIS D 1601:1995 5.3(1), Category 1: Vehicle, Condition: Category A equiv. \overline{S}
 - Operating temperature and humidity: Temperature: -20 to 60 °C (-4 to 140 °F), Humidity: 80%rh or less (non-condensing)
 - (Depends on battery and current sensor specifications when they are in use)

• Power supplies: AC Adapter Z2003 (sold as a separate option), AA alkaline batteries × 2, 5 to 13.5 VDC external power source

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Other Characteristics

Measure even in hightemperature environments

The operating temperature range is -20 to 60 °C (-4 to 140 °F). Even in high temperatures, you can measure with peace of mind. (Depends on the operating temperature ranges for the battery and current sensor when they are in use)

Three-way power that can be selected to match the location

Power with the AC adapter (sold separately), AA alkaline batteries (2), and an external power supply (such as a power supply from USB to 13.5 VDC or USB). (Power supply from USB requires a converter cable. Please inquire with your local Hioki distributor.)

Built-in Bluetooth[®] wireless technology

Bluetooth[®] is a wireless technology standard that uses frequency hopping to avoid interference from wireless LAN or cordless telephones and also has little effect on peripherals.

Data can be collected even inside a case

Even when you put the product in a plastic case or vinyl bag to protect it from dust or water, the wireless connection is not cut off and data can continue to be collected.

Built-in average value recording mode

Record the average value for each recording interval at the maximum sampling rate. (Built-in to the LR8513)

High speed sampling at 0.1 second

The recording interval can be as fast as 0.1 second, enabling you to clearly grasp even small variations. (LR8513/ LR8514: 0.5 sec.)

Models and Options

The AC adapter is not bundled

WIRELESS MINI LOGGERs

WIRELESS PULSE LOGGER LR8512 WIRELESS CLAMP LOGGER LR8513

WIRELESS HUMIDITY LOGGER LR8514.....Scheduled for release in Spring 2015 WIRELESS VOLTAGE/TEMP LOGGER LR8515..Scheduled for release in Spring 2015

Accessories: CD-R (Instruction Manual, Logger Utility) × 1, Measurement Guide × 1, Caution for Using Radio Waves × 1, AA alkaline batteries (LR6) × 2 Note: Only included with the LR8512: Connection Cable L1010 × 2 The Wireless Logging Station LR8410-20 is required to collect and forward to a PC the data recorded by the Wireless Mini Logger. One LR8410-20 can control up to 7 logging modules. Mix-and-match modules as needed.



Also Available : Multi-Channel Logging	Addules The Wireless Logging Station LR8410-20 is required to collect and forward to a PC the recorded data. One LR8410-20 can control up to 7 logging modules. (Can be mixed with Wireless Mini Loggers.)		
 Control up to 105 channels with the LR8410-20 by connecting up to 7 modules Max. 100 ms sampling on all channels Power with the AC adapter, battery, or DC power supply (10 to 28 VDC) 	WIRELESS VOLTAGE/TEMP UNIT LR8510 2 terminals M-3 mm screw type, 15 ch For measuring voltage or temperature with thermocouples AC adapter included AC adapter included		
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