# HIOKI

# Easily collect
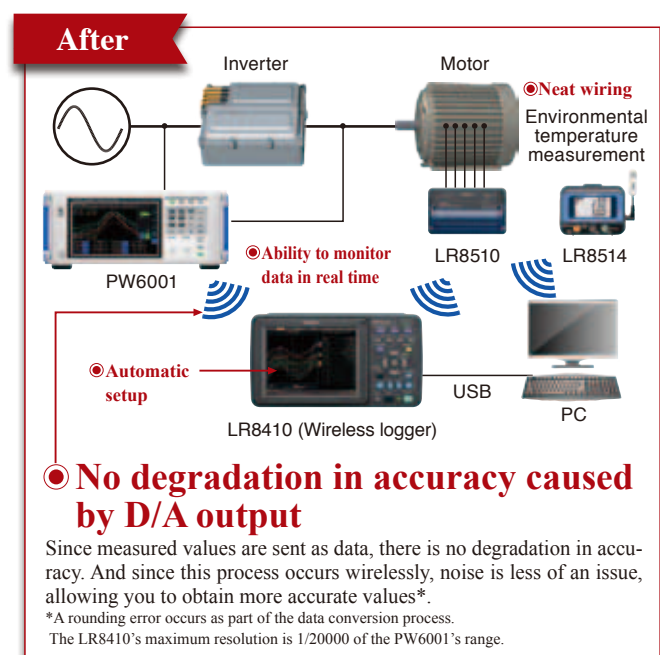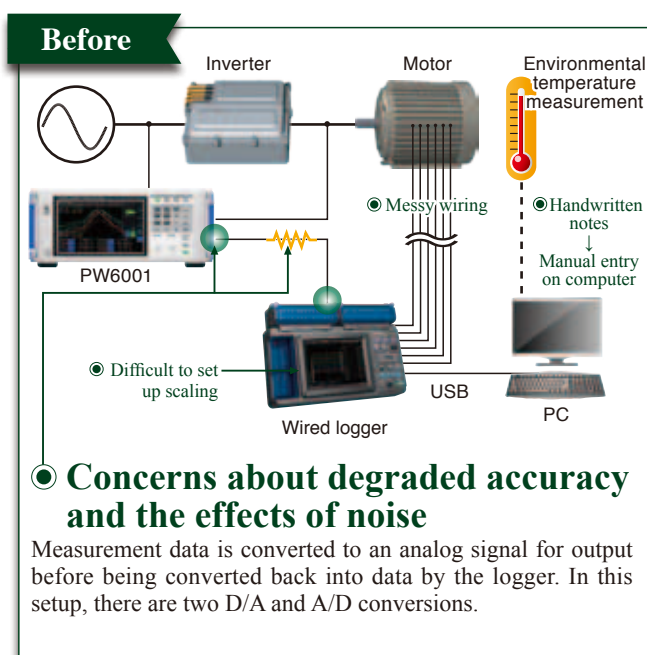## power meter data
## with the **LR8410**

**New function**

# LR8410 Link

Use the Wireless Logging Station LR8410 to collect data from LR8410 Link-compatible products in real time.

WIRELESS LOGGING STATION LR8410-20

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**Before**

Inverter    Motor    Environmental temperature measurement

◉ Messy wiring

◉ Handwritten notes

Manual entry on computer

PW6001

◉ Difficult to set up scaling

Wired logger    USB    PC

◉ **Concerns about degraded accuracy and the effects of noise**

Measurement data is converted to an analog signal for output before being converted back into data by the logger. In this setup, there are two D/A and A/D conversions.

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**After**

Inverter    Motor

◉**Neat wiring**

Environmental temperature measurement

◉**Ability to monitor data in real time**

LR8510    LR8514

PW6001

◉**Automatic setup**

LR8410 (Wireless logger)    USB    PC

◉ **No degradation in accuracy caused by D/A output**

Since measured values are sent as data, there is no degradation in accuracy. And since this process occurs wirelessly, noise is less of an issue, allowing you to obtain more accurate values*.

*A rounding error occurs as part of the data conversion process. The LR8410's maximum resolution is 1/20000 of the PW6001's range.
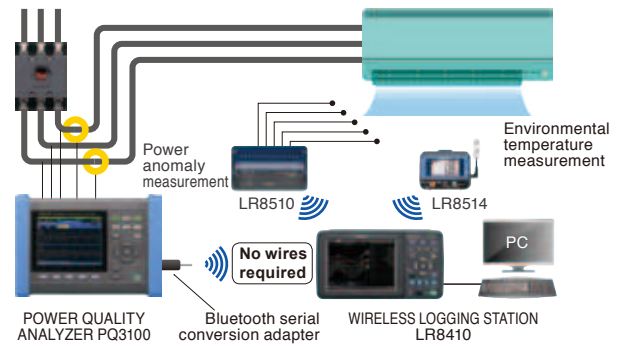
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# Features

## Easy scaling

The setup process is simple: just search for and pair LR8410 Link-compatible products. Since the settings on paired devices are automatically received by the LR8410, there's no need to manually configure troublesome scaling settings. And since this process occurs wirelessly, you spend less time on wiring work.

## Simultaneous measurement of power, temperature, and other data

The LR8410 can be used with a broad range of modules and LR8410 Link-compatible products. Since you can pair it with up to seven devices, you can measure a large number of channels and parameters along with power meter data.

In addition, the LR8410 provides other useful functionality such as waveform calculation and alarms.

# Applications

Power anomaly measurement

LR8510

LR8514

Environmental temperature measurement

No wires required

PC

POWER QUALITY ANALYZER PQ3100

Bluetooth serial conversion adapter

WIRELESS LOGGING STATION LR8410

Connect the PQ3100 and the LR8410 via Bluetooth® wireless technology to transmit up to 6 kinds of measured values to the LR8410, letting you record PQ3100 values in addition to other logger data.

# Pairing LR8410 Link-compatible products -PW6001, PW3390, PW3335, PQ3100-

## 1 Connect a Bluetooth serial adapter to the product.

*Turn off the product before connecting the adapter.

**Connect the adapter to the RS-232C terminal on the LR8410 Link-compatible product**

**Bluetooth serial adapter**
Recommended model: Parani-SD1000

Dedicated cable — For PW6001

←Connect as-is — PW3390 For PW3335 PQ3100

AC/DC power adapter
*PW3390 only

**Parani-SD1000 setup**
Set the DIP switches based on the communication speed of the LR8410 Link-compatible product and turn on the power switch.
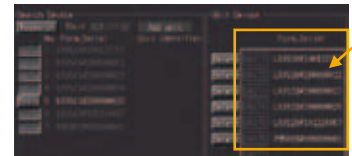
## 2 Configure the LR8410 Link-compatible product's communications settings

**Example PW6001 screen**

RS-232C  Connection
Com. Speed

Bluetooth    Setup

Select "Bluetooth" under the LR8410 Link-compatible product's RS-232C settings, set the communication speed, and choose "Initialize Adapter." Then configure the product's settings as necessary.

## 3 Pair with the LR8410 and start measurement

Pair the LR8410 Link-compatible product with the LR8410 and start measurement. The paired product's settings will be automatically received by the LR8410 after pairing.

# System setup

## Receiver

### Model WIRELESS LOGGING STATION LR8410

Ver. 1.4 and later

Logging Multi-point Data Has Never Been So Easy with a Wireless Data Logger
max.105 ch

Model No. (Order Code)
**LR8410-20**

The LR8410-20 alone is not capable of making measurements. One or more input modules are necessary to measure.
For more detailed information, please refer to the individual product catalogs.

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## Measurement unit: Pair up to 7 units (models can be mixed)

**LR8410 Link-compatible products** *Contact HIOKI for more information.

A Bluetooth serial adapter (purchased separately; recommended model: Parani-SD1000) is required.

**POWER ANALYZER PW6001**   Ver. 2.0 and later
A dedicated connection cable (purchased separately) is required.

**POWER ANALYZER PW3390**
An AC/DC power supply adapter (purchased separately; recommended model: OPA-G01) is required.
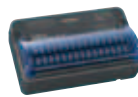
**POWER METER PW3335**   Ver. 1.1 and later
The PW335-01 is not supported.

**POWER QUALITY ANALYZER PQ3100**   Ver. 2.0 and later

Voltage Thermocouples
WIRELESS VOLTAGE/TEMP UNIT LR8510
2 terminals M-3 mm screw type   **15 ch**

Voltage Thermocouples Pt 100, JPt 100 sensor Resistance Humidity
WIRELESS UNIVERSAL UNIT LR8511
4 terminals push-button type   **15 ch**

WIRELESS VOLTAGE/ TEMP LOGGER  LR8515   **2 ch**

WIRELESS HUMIDITY LOGGER  LR8514   **2 ch**

WIRELESS CLAMP LOGGER  LR8513   **2 ch**

WIRELESS PULSE LOGGER  LR8512   **2 ch**

WIRELESS FUNGAL LOGGER  LR8520   **1 ch** Alarm 1ch

*Note: Company names and Product names appearing in this catalog are trademarks or registered trademarks of various companies.*

All information correct as of May 10, 2018.  All specifications are subject to change without notice.     Chirasi_LR8410Link_E1-85B     Printed in Japan