

LR8541 - WIRELESS HUMIDITY LOGGER

Temperature and Humidity Data Logger for Managing Production Plants and Agricultural Sites.

Rating: Not Rated Yet

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Manufacturer [Hioki](#)

Description

Overview

Hioki Memory HiLoggers are high-speed data loggers for recording multiple channels of voltage, temperature, resistance or humidity signals, some models providing complete isolation between channels and strong noise resistance. The Hioki LR8514 Wireless Humidity Logger provides easy, wireless collection of temperature and humidity data, and is the ideal tool for managing the environmental condition of production plants and agricultural sites. Data can be downloaded using Hioki's tablet and smartphone app (for Android devices). Search for "HIOKI" and download the Wireless Logger Collector!

Key Features

- High-precision, $\pm 3\%$ RH humidity sensor
- Convenient for simultaneously recording and comparing temperature and humidity readings at 2 locations
- Compact, two-channel model fits where other devices don't
- Download measurement data to a tablet or computer with Bluetooth® wireless technology or capture in real time with the LR8410
- Three-way power (AC adapter, AA alkaline batteries, or external 5 to 13.5 V power supply)
- Store 500,000 data points per channel

Specification:

Functionality	[Used as standalone product (Data collected manually)] Windows PC or Windows tablet (CD-R with software included) Android smartphone or Android tablet terminal (Software can be downloaded free of charge from Google Play.) *Communication range varies with the performance of the computer or tablet (up to a line-of-sight distance of roughly 30 m) [Used as logging module (Real-time measurement)] Device can be used as an LR8410 logging module to record and display data in real time and to control up to 7 units, Communication distance: 30 m
Number of channels	2 ch for temperature + 2 ch for humidity (2 sensors can be attached)

Measurement items	Temperature, Humidity
Measurable Range	[Temperature] -40 °C to 80 °C, Range 100°C f.s., Max. resolution 0.1°C [Humidity] 0 to 100% RH, Range 100% RH f.s., Max. resolution 0.1%RH
Measurement accuracy (using Z2010/ Z2011)	[Temperature basic accuracy] ±0.5 °C (10 to 60 °C) *If outside above temperature range: Add 0.015 °C/ °C (-40 to 10 °C) or 0.02 °C/ °C (60 to 80 °C) [Humidity basic accuracy] ±3% RH (20 to 30 °C, 20 to 90% RH), Hysteresis: ±1% RH (Added to the humidity measurement accuracy)
Display items	Measurement value, date, time, number of recorded data, maximum value, minimum value, and average value
Functions	Alarm, Scaling, Recording operation hold function, Erroneous operation prevention, Comment recording function, Power saving function, Authentication function, Free run
Recording	[Capacity] 500,000 data items for each channel [Mode] Instantaneous value [Interval] 0.5 to 30 sec, 1 to 60 min, 14 selections
Power source	AC Adapter Z2003 (100 to 240 V AC, 50/60 Hz), AA alkaline batteries (LR6) x2, External power 5 to 13.5 V DC (can also be supplied from USB bus power, with a conversion cable)
Continuous operating time ([Capacity] 500,000 data items for each channel) (23°C)	3.5 months (Recording interval of 1 min, Bluetooth® OFF), 20 days (Recording interval of 1 sec, Bluetooth® ON), 5 days (Recording interval of 0.5 sec, during real-time measurement with the LR8410)
Dimensions and mass	85 mm (3.35 in) W x 61 mm (2.40 in) H x 31 mm (1.22 in) D (Excluding protrusions), 95 g (3.4 oz) (Not including the battery)
Accessories	CD-R x1 (Instruction Manual, Logger Utility, Wireless Logger Collector), Measurement Guide x1, Caution for Using Radio Waves x1, AA alkaline batteries (LR6) x2