



Data Logger

Amplifier

Indicator
&
Display

Handheld

RMH-301B

Digital Strain Recorder



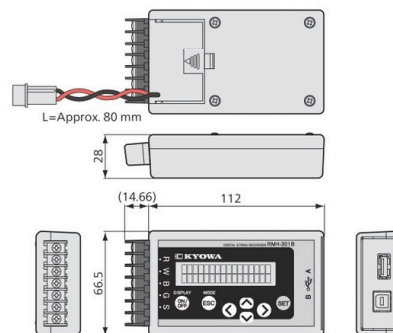
Ideal for unmanned long-term measurement in places where power is not available

- Channels: 1/unit
- Compact and lightweight
- Equipped with a display for confirming settings and measurement values
- Easy data collection via USB flash drive

This is a low-power data recorder powered by batteries. This makes it suitable for unmanned long-term measurement in places where power is not available, such as remote areas, mountainous regions, and areas with heavy snowfall. It can be connected to strain gage civil engineering sensors (transducers) and civil engineering sensors (transducers) equipped with a temperature measuring function, and it can measure one channel.

It also has operation and display sections, allowing for operations related to setting of measuring conditions and performing measurements.

■ Dimensions



Specifications

Channels	1
Applicable Transducers	Strain-gage transducers Strain-gage civil engineering transducers Civil engineering transducer with a thermal sensor
Compatible Bridge Resistance	350 Ω (Full-bridge system)
Cable Length	Max. 2.0 km(4-conductor (0.5 mm ²) shielded cable)
Gage Factor	2.00 fixed
Bridge Current	Approx. 2.19 mA DC
Temperature Measurement Current	Approx. 0.24 mA DC
Measuring Range	Strain: $\pm 20000 \times 10^{-6}$ strain Temperature: -30.0 to 70.0°C
Resolution	Strain: 1×10^{-6} strain Temperature: 0.1°C
Measuring Accuracy	Strain: $\pm 0.1\%$ FS Temperature: $\pm 0.5^{\circ}\text{C}$
Data Storage	Strain: :30720 times Temperature: :30720 times Strain + temperature :20475 times
Clock	Year (2 digits of the Gregorian calendar), month, date, hour, and minute
Measuring Interval	1 to 59 minutes (1 minute/step) 1 to 99 hours (1 hour/step)
Display	LCD (16 digits $\times$ 2 lines)
Operation	Arrow keys, ON/OFF, SET, ESC
Interface	USB1.1
Power Supply	6 to 15 VDC, optional battery pack
Current Consumption	During operation: 100 mA or less Standby status: 100 μA or less
Input Specifications	Bolt (M3) Applicable press-fitted terminal: RAV, 1.25-3 or equivalent
Operating Temperature	-20 to 50°C (0 to 50°C for data collection)
Operating Humidity	10 to 95% (Non-condensing)
Operating Environment	Dust or the inductive noise of a bulk motor must not be present.
Dimensions	112 W $\times$ 28 H $\times$ 66.5 D mm (Excluding protrusions)
Weight	Approx. 180 g

■ Standard Accessories Instruction manual (CD-R)

■ Optional Accessories USB cable N-38 (1 m), N-39 (2 m)
Battery Pack RB-5A (5 Ah), RB-10A (10 Ah)

To Ensure Proper Usage

Some models of USB memory may not collect data correctly.

For recommended models, please contact us.