

# AirLogger<sup>™</sup> WM1000

Wireless Data Logger Maximizes Efficiency,  
Enables Temperature Measurement of Moving Objects

ADVANTEST



Start Time: 2015-11-11 09:29:25 / File: not saved / Sampling Rate: 1sec / System No.: 1

Ch	Comment	Temp.	Type	Batt
1	right front wheel	+24.7	K	■
2	left front wheel	+24.9	K	■
3	right rear wheel	+24.8	K	■
4	left rear wheel	+24.8	K	■
5	right engine room	+25.8	K	■
6	left engine room	+24.9	K	■
7	driver's seat	+24.8	K	■
8	passenger seat	+24.7	K	■
9	back seat	+24.9	K	■
10	dashboard	+25.0	K	■
11	car navigation	+24.5	K	■
12	air conditioner	+24.7	K	■
13	left front wheel brakes	+24.7	K	■
14	right front wheel brakes	+24.8	K	■
15	left rear wheel brakes	+24.0	K	■
16	right rear wheel brakes	+25.0	K	■
17	windshield	+24.8	K	■
18	rear window	+24.8	K	■
19	hood	+24.6	K	■
20	trunk	+24.9	K	■
21	fuel tank	+24.7	K	■
22	exhaust pipe	+24.7	K	■
23	roof	+24.7	K	■
24	engine	+24.8	K	■

In the automotive industry, and many other manufacturing and R&D fields, temperature measurement and evaluation are normally performed with data loggers whose measurement units and data processing units are connected by cables. The time wastage involved in set-up and teardown has impelled demand for a more efficient method of temperature measurement.

The AirLogger™ WM1000 is fully wireless, offering a revolutionary solution to these problems. It supports temperature measurement of smaller objects and moving objects, and also enables simultaneous measurement of multiple points.

## Features

### Fully Wireless Design Dramatically Boosts Efficiency

The AirLogger™'s sensor unit, which incorporates a thermocouple data processor, wirelessly sends temperature data to a PC for display and saving. The WM1000 dramatically boosts efficiency by freeing users from the constraints of working with data cables.

### Measures Temperatures of Rotating / Moving Objects

The AirLogger™ enables easy temperature measurement for formerly difficult-to-measure targets such as revolving tires and other moving objects. Temperatures can be logged across a broad area, all without cables.

### Real-Time Simultaneous Measurement of Temperatures at Multiple Points

The WM1000 can measure temperatures at a maximum of 100 points simultaneously in real time. Measurement points can be dispersed across a broad area.

### Compact Body, No AC Power Source Required

The sensor unit uses a button battery for its power supply, and the PC communication unit charges via USB connection to a PC. The flexibility to measurement temperatures in environments with no power outlets enables diverse applications.

### Can be used in Japan, US, China, and Vietnam

The WM1000 complies with FCC rules and is certified under Japan's Technical Regulations Conformity System, allowing it to be used in the United States and Japan.

The WM1000 is approved to be used in China and Vietnam.



PC communication unit

Sensor unit

## Specification

Temperature measurement range:	K : -200°C to + 1300°C (-328°F to +2372°F)
Temperature sampling rate :	100msec~10min
Sensor unit	
Operating environment range :	-15°C ~ +70°C (+5°F to +158°F)
Outer dimensions:	35 (W) × 35 (D) × 14.5 (H) mm
Maximum number of connected sensor units :	100/system
Power supply :	Button battery (CR2032)
Resistance against vibration :	Equivalent to JIS_D1601_Type 1_Type C
Dust proof/waterproof performance :	Equivalent to IP54
OS :	Windows7, Windows8/8.1, Windows10
Supported thermocouples :	K, T, J
Communication frequency :	2.4GHz wireless communication

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- Note that the communication may become unstable or the communication distance may become shorter depending on the radio wave environment and obstacles during use.
  - This product can be used in Japan, United States, China and Vietnam.
  - Specifications may change without notification.
  - PC not included.
  - Products are not fault-tolerant and are not designed or intended for any use requiring fail-safe performance in which the failure of a Product could lead to death, serious personal injury, or severe physical and environmental damages (collectively, "High Risk Activities"), such as the operation of nuclear facilities, aircraft navigation or communication systems, air traffic control, weapons systems and/or direct life-support machines.
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