ADVANTEST®

2 ch Temperature/Voltage Measurement Unit



Measures Temperatures, Voltages of Rotating/ Moving Object

Features of Measurement Unit

Real-time Simultaneous Measurement at a Maximum of 200 points

By utilizing the advantage of wireless measurement, maximum of 200 points (100 units) * can be measured simultaneously in real time.

* When sampling time is less than 1 sec, 60 points (30 units).

Compact Body Housing 2 channels

High density mounting technology makes units even smaller and enables 2 channels to be installed in 1 unit. It contributes to space saving at installation sites and improves efficiency of operation.

Contains Two Functions, Temperature and Voltage Measurement

Temperature or voltage can be measured on each channel, providing flexible measurement in various environments required by diverse applications.

Wider Targets of Measurement with Voltage-Output Type Sensors

Various kinds of physical quantity can be measured such as humidity, pressure, wind speed, or illumination by attaching voltage-output type sensors.

Expansion of Measurement Environment

The measurement area will be extended to diverse environments such as area near water or hot temperature area using Water-proof Attachment or Heat-resistant Case.

Features of AirLogger™

Dramatically Improve Efficiency

Various measurement units wirelessly send measurement data to your PC for display and saving. The fully wireless design of AirLogger[™] dramatically boosts efficiency by freeing users from the constraints of working with data cables.

Work in Various Fields

The compact AirLoggerTM units without cables enable easy measurement for formerly difficult-to-measure targets such as rotating or moving objects or inside of various sizes of space or enclosed spaces.

Installed Internal Memory Stores Measurement Data

When the radio wave is weak and data transfer is unstable, the internal memory can store measurement data which can be retrieved and displayed after measurement.

Software Switch Function

The power switch has been removed from the measurement unit. Units can now be turned on/off from your PC. Smooth measurement instructions reduce wasted time. The power off status is standby mode with ultra-low power consumption, reducing power consumption of battery.

Simultaneous Measurement by Combining Diverse Types of Measurement Units

One PC Communication Unit of WM2000 series can receive measurement data from diverse types of measurement units such as temperature, voltage, strain or acceleration. They can be combined depending on use cases, making the AirLoggerTM even more convenient.





Major Specifications

Measurement ch/unit		2 ch	
Size		54.5 × 45 × 17.5 (mm)	
Weight		36 g (Include battery)	
Communication frequency		2.4 GHz wireless communication	
Communication distance		Max 30 m	
Measurement interval		100 msec, 200 msec, 500 msec, 1 sec, 2 sec, 10 sec, 1 min, 5 min, 10 min	
Number of simultaneous connection / 1 PC Communication Unit		Measurement interval 1 sec or more: Max 100 units Less than 1 sec: Max 30 units Mixed: Max 70 units (Less than 1 sec: 30 + 1 sec or more: 40)	
Power supply		Lithium primary battery	
Environmental operation range		Temperature: -40 to below +100°C* "In the United States, -40 to 90°C (Same value when Water-proof Attachment is used) Humidity: 5 to 80% RH (no condensation) (When Heat-resistant Case is used: Equivalent to 5 min, under 300°C environment)	
Resistance against vibration		Equivalent to JIS_D1601_Type 1_Type C	
Dust proof/waterproof performance		IP54 or equivalent (When Water-proof Attachment is used)	
Thermocouple temperature measurement	Applicable thermocouple	Туре К, Туре Т, Туре Ј	
	Measurement range	K: -200 to +1300°C T: -200 to +400°C J: -200 to +1000°C	
	Measurement resolution	0.1°C	
Voltage measurement	Measurement range	±12 V	
	Measurement resolution	-100 mV to 100 mV: 10 μV -1 V to 1 V: 100 μV -12 V to 12 V: 1 mV	
	Absolute maximum rating	±15 V	
Water-proof Attachment		Size: 64.5 x 66.1 x 21 (mm) Material: Polycarbonate	
Heat-resistant Case (Optional)		Size: 120 x 130.6 x 46 (mm) (include metal fittings) Weight: 550 g	



(sold separately)

Other Specifications

[PC Comn	nunication	Unit] (Sold separately)	
Outer dimensions		50 × 23.5 × 8.3 (mm)	
Weight		11 g	
Power supply		From PC mainframe	
Connection to PC		USB interface	
Communication frequency		2.4 GHz wireless communication	
Install PC environment	Specifications	CPU: Intel Celeron processor 1.6 GHz or higher	
		Memory: 2 GB (including memory used by the OS)	
		Remaining storage of space: 10 MB or less (program size)	
		Display: Minimum size 8-inch, Minimum XGA (1024 x 768)	
	OS	Windows10 32bit/64bit, Windows11 64bit	
	Interface	USB 2.0 compliant	

* Windows is a registered trademark of Microsoft Corporation in the U.S. and/or other countries.

Products

*4 Commonly usable with the same series		
Heat-resistant Case	1 case/1 set	A7030-B00-001**
Replacement Water-proof A *3 Exclusive for 7 ch Temperature/Voltage Me		
*7 In case of overseas transportation of lithiu		<u> </u>
packaged in accordance with UN packa	ging standards before transportatio	n.
*5 As replacement of lithium batteries that i *6 For transporting only lithium batteries ow		to UN standards and should be
Measurement Unit (WM2000SA).	t should be gueted apparately	
*2 Commonly usable with the same series	2 ch Temperature/Voltage Measure	ment Unit (WM2000TA), and Strain
Replacement lithium primary	/ battery 50 units/1	set A7010-L10-050 ^{*2,5,6,}
Replacement lithium primary	/ battery 10 units/1	set A7010-L10-010 ^{*2,5,6,}
*1 Please order certificate sets of the numb (e.g. To order certificates for five measur	ement units, order 5 sets)	
	measurement unit/1 se	
One set of the software CD		
Options]		
 Software and manuals are provided as In case of you need the software CD an 		elect from the option window.
PC Communication Unit	1 unit/1 set	WM2000ZA-000-01
PC Communication Unit		
 To use these measurement units, at lea 	st one PC Communication Unit is	required to be installed in a PC.
Sensors, PC Communication Unit and I		
Standard Accessories: A lithium		
Measurement Unit	10 units/1 set	WM2000TA-000-10
Measurement Unit Measurement Unit	1 unit/1 set 5 units/1 set	WM2000TA-000-01 WM2000TA-000-05

This product can be used in Japan, China, Vietnam, United States, EU, Thailand, Taiwan.
In the United States, the temperature range is -40°C to 90°C in compliance with US safety standards.

 In the United States, the temperature range is -40 to 50 to 0 in Compliance with OS sately stated states.
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 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 (collective), '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. Advantest expressly disclaims any express or implied warranty of fitness for high risk activities.

ADVANTEST

http://www.advantest.com

ADVANTEST CORPORATION

Shin-Marunouchi Center Building, 1-6-2 Marunouchi, Chiyoda-ku, Tokyo 100-0005, Japan

E-mail: info_wm@advantest.com New Area Business Development Initiative