

NEW  
MODEL  
新产品

ANRITSU ANRITSU METER CO.,LTD.



Thermocouple fixed type /  
multi-input type,  
6ch / 12ch lineup selectable.  
Compatible with  
temperature probes for  
all applications.  
Work efficiency is improved by  
simple operation.

热电偶固定型·可切换型，  
可选择6通道·12通道，  
并且可对应各种温度传感器。  
操作简单，提高工作效率。



# Thermologger

## 温度记录仪

AM-9000 series  
系列



# Data recorded by simple operation can be transferred to PC with dedicated software for analysis processing.

通过使用专用软件，即可简单的将记录的数据传送到电脑，进行解析。

AM-9000 series is a temperature logger that can record the measured data.

The recorded data can be easily transferred to PC with the dedicated analysis software AMS-950 (sold separately).

AM-9000 系列，可将记录的数据储存于主机。可使用专用软件 AMS-950 (另售)，简单的将数据传送到电脑。

## AM-9000 series lineup / AM-9000 系列产品

### Thermocouple fixed type / 热电偶固定型

6ch type / 6 通道

12ch type / 12 通道



**AM-9000K**

Thermocouple type: Type K  
热电偶种类: K 型

**AM-9100K**

Thermocouple type: Type K  
热电偶种类: K 型

### Multi-input type / 可切换型

6ch type / 6 通道

12ch type / 12 通道



**AM-9200**

**AM-9300**

Input section is made of the same type of thermocouple  
插口处采用同种热电偶金属

Selectable thermocouple type (E·K·J·T·R)  
for each channel with multiple inputs  
可切换型 (E·K·J·T·R)，每个通道都可单独设置

## Feature Description / 功能说明

### USB communication

Dedicated analysis software AMS-950 (sold separately) is required for data transfer.

### USB 通信

传送数据需购买专用解析软件 AMS-950 (英文版)。

### Interval function (The following numbers are time of interval that can be set.)

### 记录间隔

#### ● Thermocouple fixed type

#### ● 热电偶固定型

6-channel type

Less than 1s : 0.1s ~ 0.99s Over 1s : 1s ~ 99m 59s

6 通道: 0.1 秒 ~ 0.99 秒为 0.01 秒, 1 秒 ~ 99 分 59 秒为 1 秒

12-channel type

Less than 1s : 0.2s ~ 0.99s Over 1s : 1s ~ 99m 59s

12 通道: 0.2 秒 ~ 0.99 秒为 0.01 秒, 1 秒 ~ 99 分 59 秒为 1 秒

#### ● Multi-input type

#### ● 可切换型

Less than 1s : 0.2s ~ 0.99s Over 1s : 1s ~ 99m 59s

0.2 秒 ~ 0.99 秒为 0.01 秒, 1 秒 ~ 99 分 59 秒为 1 秒

### Enlarged display function

Normally, the measured values for 6 channels are displayed on one screen. Enlarge and display any one channel by scrolling the screen.

### 扩大显示功能

通常 6 通道的测量数据在 1 页面内同时显示。通过滚动屏幕可以放大显示任意 1 通道数据。

### Input type

#### ● Thermocouple fixed type

Temperature (1 type can be selected from thermocouple type E·K·J·T·R when ordering) / Voltage input

\* Thermocouple types J, T and R are optional.

Temperature, Voltage or OFF can be set for each channel.

### 输入类型

#### ● 热电偶固定型

温度 (E·K·J·T·R 中固定选择 1 种) / 电压

※每个通道都可设置温度 / 电压 / OFF

#### ● 可切换型

温度 (E·K·J·T·R 可切换) / 电压

※每个通道都可设置温度 (E·K·J·T·R) / 电压 / OFF

#### ● Multi-input type

Temperature (multi-input, thermocouple type E·K·J·T·R), Voltage or OFF can be set for each channel.

### 内存 120,000 数据

电池·AC 电源的 2 种电源方式

Memory capacity 120,000 data

Dual power supply system with dry batteries and AC-Adaptor

## Option / 选件

### Main accessories

Test report, communication cable (AM-USB2), soft case

### Sold separately

Dedicated analysis software AMS-950  
Dedicated AC-Adaptor AD-115-500-HR-R (for 115 VAC) /  
AD-220-500-HR-R (for 220 VAC)  
Carrying case AM-CC2

### 附带品

校正成绩单, 通信数据线 AM-USB2, 主机套

### 另售品

专用解析软件 AMS-950 (英文版)  
专用 AC 电源 AD-115-500-HR-R (AC115V 用) /  
AD-220-500-HR-R (AC220V 用)  
手提箱 AM-CC2

A heat-resistant box for temperature control of the heat treatment process in the furnace.  
We also supply waterproof box for the pasteurizer.

炉内温度管理等适用的耐热盒。饮料水灭菌过程温度检测用的防水盒。

### TB-6002K type K Heat-resistant box (6 channel model)

耐热盒 (6 通道) TB-6002K K 型热电偶

Application limit	300°C/20 minutes
Dimensions	320(W)×190(H)×250(D)mm *Excluding protrusions
Weight	approx.10kg

### TB-6003-SP13K type K Waterproof box (6 channel model)

防水盒 (6 通道) TB-6003-SP13K K 型热电偶

Application limit	100°C/60 minutes
Dimensions	205(W)×155(H)×405(D)mm *Excluding protrusions
Weight	approx.8kg



## Functions of analysis software AMS-950 / 解析软件 AMS-950 的功能

### Data transfer / 数据传送

The data recorded in AM-9000 series can be transferred to a PC via USB communication.

可将记录在 AM-9000 系列主机的数据通过 USB 数据线传送到电脑。

### Real measurement / 实时测量

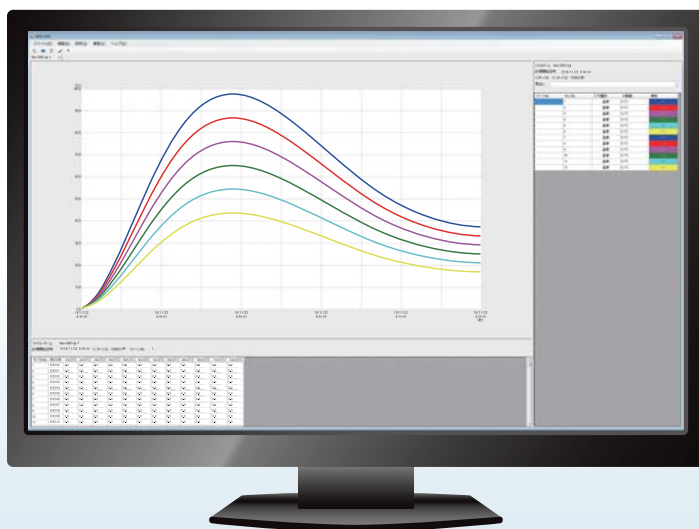
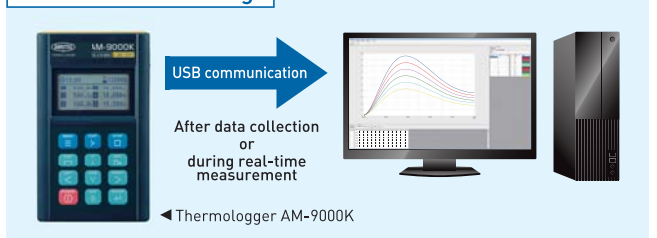
The data being measured can be displayed on PC in real time.

可在电脑上实时显示测量数据。

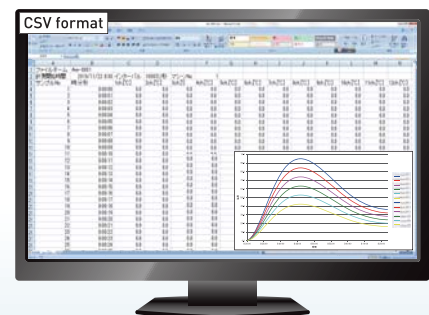
### Data graph function, form conversion function, device setting function

制图功能 · 制表功能 · 设置主机功能

### Communication image



### Data conversion function / 数据转换功能



By converting the measurement data into CSV format, you can edit the measurement contents on spreadsheet software such as Excel.

It also supports XPS format conversion, so it can be used to avoid the risk of data tampering.

可将记录的数据转换成 CSV 文档, 便于在 Excel 上自由编辑。并且也可转换为 XPS 文档, 可以用来避免数据被篡改风险。

## Operating environment of dedicated data analysis software AMS-950

Supported OS Windows® 8.1, Windows® 10

Under USB environment

System type 32bit / 64bit

\* Operation is not guaranteed for all PCs with the above operating environment.

\* Available only to users with system administrator privileges (Administrator).

\* Windows® and Excel® are registered trademarks or trademarks of Microsoft Corporation in the United States, Japan and other countries.

\* Windows® 8.1 and Windows® 10 are product names of Microsoft Corporation in the United States.

# Specifications / 规格

Model 型号	Thermocouple fixed type 热电偶固定型		Multi-input type 热电偶可切换型	
	AM-9000※	AM-9100※	AM-9200	AM-9300
Number of inputs 通道数	6ch	12ch	6ch	12ch
Input connector 插头	ANP connector (same type thermocouple)		ANP connector (both poles are copper)	
Input type 输入	Temperature: E·K·J·T·R by selected model *2 DC Voltage: V		Temperature: Multi-input *1 DC Voltage: V	
Measurement range 测量范围	Temperature: TABLE I DC Voltage: ±20.000V			
Resolution 分辨率	Temperature: 0.1°C/1°C DC Voltage: 0.001V			
Measurement accuracy 测量精度	Temperature: TABLE II DC Voltage: ± (0.05% of reading +0.003V)			
Memory capacity 内存	120,000 data			
Interface 通信	USB2.0 (micro-B)			
Dimensions *Protruded parts excluded 外形尺寸	92×155×36	96×160×60	92×155×36	96×160×60
Weight (Including dry batteries) 重量	approx.380g	approx.480g	approx.410g	approx.540g
Reference junction compensation accuracy 参比端接点补偿精度	±0.3°C *3		±0.5°C *3	
Temperature coefficient 温度系数	± (0.04×Δt °C) *4			
Time interval 测量间隔	0.1 second to 99 minutes 59 seconds	0.2 second to 99 minutes 59 seconds	0.2 second to 99 minutes 59 seconds	
Signal source resistance 信号源电阻	500Ω or less (measurement interval 1 second or more) / 100Ω or less (measurement interval less than 1 second)			
Safe excitation voltage 安全激励电压	Between input pins on same channels: ±30VDC, Between input pins on adjacent channels: 150Vp-p			
Linearizer 线性	Digital linearizer method (Compliant with JIS C1602-2015)			
Display 显示屏	Graphic liquid crystal display, 128×64 dots			
Environment operational Environment storage 使用/保管环境	Operation: 0~40°C, 15~80%RH (Non condensing) Storage: -10~50°C, 10~85%RH (Non condensing)			
Battery life 电池寿命	TABLE III			
Power supply 电源	4 AA Alkaline batteries (Supplied accessories) or AC-Adaptor (Optional accessories)			
Supplied accessories 附属品	Manual, Test report, Softcase, Communications cable, 4 AA Alkaline batteries			
Optional accessories 另售品	Special data analysis software, AC-Adaptor, Carrying case			
Compatible standards 支持规格	CE Marking, RoHS2			

The selected thermocouple type (E·K·J·T·R) is entered in ※ of the model name.

\*1 Thermocouple type (E·K·J·T·R)

\*2 Type J·T·R are optional

\*3 At 25°C ±10°C

\*4 When the ambient temperature is other than from 15°C to 35°C, "the excess temperature from the ambient temperature Δt°C" x 0.04 is added to the measurement accuracy.

※为热电偶种类型号 (E·K·J·T·R)

\*1 热电偶种类 (E·K·J·T·R)

\*2 J·T·R 为选项

\*3 在 25°C ±10°C 环境下

\*4 使用环境温度 15~35°C 以外, 测量精度需加上温度系数 (超过的使用环境温度 Δt°C 放入计算公式中)

TABLE I Measurement range  
测量范围

Thermocouple type 热电偶种类	Measurement range 测量范围
E	-200~ 800°C
K	-200~1370°C
J	-200~1100°C
T	-200~ 400°C
R	0~1760°C

TABLE III 12ch model standard time for continuous use (at 25°C, using alkaline AA batteries)  
12通道主机可连续使用时间 (5号电池使用时: 25°C标准环境)

Setting interval 测量间隔	0.2 sec	1 sec	10 sec
AM-9000 series	approx. 50 hours	approx. 55 hours	approx. 140 hours

If the number of used channels is less than 12, the usable time will be longer.  
如果12通道不全部使用, 电池的使用时间会更长。

TABLE II Measurement accuracy (In the environment of 25°C ±10°C, when the measurement interval is 1 second or more without including the reference junction compensation accuracy.)  
测量精度 (在 25°C ±10°C 环境温度下, 不包含参比端接点补偿精度, 测量间隔在 1 秒以上。)

Thermocouple type 热电偶种类	Accuracy compensation range 测量范围	Measurement accuracy 测量精度	
		AM-9000※/AM-9100※	AM-9200/AM-9300
E·K·J·T	-200.0~-100.1°C	±1.0°C	±1.5°C
	-100.0~ -0.1°C	±0.5°C	±1.0°C
	0.0~ 200.0°C	±0.3°C	±0.5°C
	200.1~ 500.0°C	±0.5°C	±0.7°C
	500.1°C or more	±0.7°C	±1.0°C
R	0.0~ 500.0°C	±1.5°C	±2.0°C
	500.1°C or more	±2.0°C	±2.5°C

If the measurement interval is less than 1 sec, add ±0.5°C at type E·K·J·T and add ±1.0°C at type R.  
记录间隔未滿 1 秒时, 热电偶 E·K·J·T 加算 ±0.5°C, 热电偶 R 加算 ±1.0°C。



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