Model AM-8000 series

Compact Thermologger

Model AM-8000 series thermometers are compact handheld units that store measurement data in memory. Data held in memory can then be transferred to a PC via dedicated software for later analysis or other use.

AM-8000模式系列

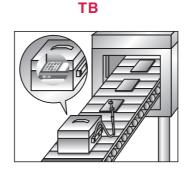
AM-8000模式系列产品是简便型温度数据记录器。 可以记忆储存测试数据并通过专用软件转送到电脑中进行数据处理。

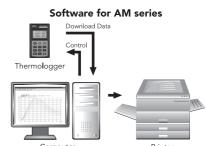
AM-8000シリーズは、ハンディタイプの温度データロガーです。 計測データをメモリし専用ソフトにてパソコンへ転送することで、 データ処理が可能です。

6ch 12ch









AMS-850

Features

·Interface

The link to the PC is by USB or RS-232C.

· Number of inputs

6ch model (capable of storing 60,000 measurements) or 12ch model (capable of storing 120,000 measurements)

·Input type

A multi-function temperature / voltage model is also available for simultaneous recording of temperature and voltage.

· Interval

The high-speed model is capable of measuring at 100ms intervals.

*Except remote measurement.

TB-6002*

Heat-resistant box for 6ch model

Application limit: 300°C/20min

External dimensions:

320 (W) ×190 (H) ×250 (D) mm (not including protrusions)

Weight: approx. 10kg

TB-6003-SP13*

Waterproof box for 6ch model

(For the container to ϕ 98mm) Application limit: 100°C/60min

External dimensions:

205 (W) ×155 (H) ×405 (D) mm (not including protrusions)

Weight: approx.8kg

- * in Type denotes the type of thermocouple
- * The above products are sold separately. Please contact us for more information.

Printer

Software specifications The software enables use of data on a PC.

- · Graph production
- · Formatted document output
- · csv file output

Compatible OSs

Microsoft® Windows® XP (SP.3 or newer), Windows Vista®, Windows®7 (for English)

- * All PCs under the recommended environment are not guaranteed to work successfully with AMS-850.
- AMS-850 can be used only by the user that has a system administrative right (Administrator).
- * AMS-850 does not support Mac OS.
- * Microsoft ® Windows ® XP, Windows Vista ®, Windows ® 7 and Excel® are registered trademarks of Microsoft Corporation in the United States and other countries
- * Software is sold separately.

Function of AM-8000 series

Model		Inte	rface	Numbe	r of inputs	Input	Input type		Interval	
Type K	Type E	USB	RS-232C	6ch.	12ch.	Temp.	V	Normal	High speed	
AM-8000K	AM-8000E	•		•		•		•		
AM-8001K	AM-8001E	•		•		•		•	•	
AM-8050K	AM-8050E	•		•		•	•	•		
AM-8051K	AM-8051E	•		•		•	•	•	•	
AM-8010K	AM-8010E	•			•	•		•		
AM-8011K	AM-8011E	•			•	•		•	•	
AM-8060K	AM-8060E	•			•	•	•	•		
AM-8061K	AM-8061E	•			•	•	•	•	•	
AM-8100K	AM-8100E		•	•		•		•		
AM-8101K	AM-8101E		•	•		•		•	•	
AM-8150K	AM-8150E		•	•		•	•	•		
AM-8151K	AM-8151E		•	•		•	•	•	•	
AM-8110K	AM-8110E		•		•	•		•		
AM-8111K	AM-8111E		•		•	•		•	•	
AM-8160K	AM-8160E		•		•	•	•	•		
AM-8161K	AM-8161E		•		•	•	•	•	•	

Specifications

6ch. model

Model	AM-8000	AM-8001	AM-8100	AM-8101	AM-8050	AM-8051	AM-8150	AM-8151
Input type	Temperature			Temperature / DC Voltage				
Measurement range	*TABLE I				Temperature: *TABLE I			
Weasurement range	IABLET	* IABLE I			DC Voltage : ±19.999V			
Resolution	0.1°C / 1°C (fixed)			Temperature : 0.1 °C / 1 °C (fixed)				
nesolution					DC Voltage : 0.001V			
Measurement accuracy	*TABLE II			Temperature : *TABLE II				
Measurement accuracy				DC Voltage : ± (0.06% of reading + 0.02% of F/S)				
Memory capacity	60,000 data							
High-speed interval	1 sec.	0.1 sec.	1 sec.	0.1 sec.	1 sec.	0.1 sec.	1 sec.	0.1 sec.
Interface	USB1.1 RS-232C			USB1.1 RS-232C				
Dimensions / Weight	$92 (W) \times 155 (H) \times 36 (D) \text{mm} [Protruded parts excluded] / approx. 380g [Including dry batteries]$							

12ch. model

Model	AM-8010	AM-8011	AM-8110	AM-8111	AM-8060	AM-8061	AM-8160	AM-8161
Input type	Temperature				Temperature / DC Voltage			
Measurement range	*TABLE I			Temperature: *TABLE I DC Voltage: ±19.999V				
Resolution	0.1°C / 1°C (fixed)				Temperature : 0.1 °C / 1 °C (fixed) DC Voltage : 0.001V			
Measurement accuracy	*TABLE II				Temperature: *TABLE II DC Voltage : ± (0.06% of reading + 0.02% of F/S)			2% of F/S)
Memory capacity	120,000 data							
High-speed interval	1 sec.	0.2 sec.	1 sec.	0.2 sec.	1 sec.	0.2 sec.	1 sec.	0.2 sec.
Interface	USB1.1 RS-232C		USB1.1 RS-232C		232C			
Dimensions / Weight	96 (W) ×160 (H) ×60 (D) mm [Protruded parts excluded] / approx. 480g [Including dry batteries]							

Common specifications

Input cor	nnector	ANP connector (Miniature plug)					
Reference junction compensation accuracy		±0.3°C at 25°C±10°C					
Temperature	coefficient	± (0.01% / °C) of measurement range except 25°C±10°C					
Time interval		Standard mode : 1 second to 99 minutes 59 seconds High-speed mode (6ch.model) : 0.10 seconds to 0.99 seconds	In the case of remote measurement through a PC: 1 second to 99 minutes 59 seconds				
		High-speed mode (12ch.model) : 0.20 seconds to 0.99 seconds	a : 0 : 1 : 0000114 to 00 1111114100 00 00001140				
Signal source	raciatanaa	Temperature : 500Ω or less (standard mode) , 100Ω or less (high	Temperature : 500Ω or less (standard mode) , 100Ω or less (high-speed mode)				
Signal Source	resistance	DC Voltage : Input impedance app. 2MΩ or less					
Cofo avaitati	on voltage	Between input pins on same channels : ±10V DC (temperature) , ±30V DC (Voltage)					
Safe excitati	on voltage	Between input pins on adjacent channels : ±60V AC					
Linear	lizer	Digital Linearlizer method (Compliant with IEC 60584-1 (1995))					
Interf	ace	USB 1.1 MINI-B or RS-232C					
Disp	lay	Graphic liquid crystal display, 128×64 dots (55×27mm)					
Environment	Operation	0~40°C, 20~80%RH (Non condensing)					
Environment	Storage	-10~50°C, 10~90%RH (Non condensing)					
Powers	supply	4 AA Alkaline batteries or AC-Adapter (Option accessories)					
Supplied accessories		4 AA Alkaline batteries, Test report, Manual, Softcase, Communications cable (USB or RS-232C)					
Optional accessories		AC-Adapter, Special data analysis software (AMS-850), Carrying case					
Compatible standards		CE Making, RoHS					
Companible standards		or making, more					

*TABLE I (Measurement range)

Туре	1°C Range	0.1℃ Range	
E	-200∼ 800°C		
K	-200~1370°C	-100.0∼500.0°C	
J	-200∼1100°C		
Т	-200∼ 400°C	-100.0∼400.0°C	
R	0∼1760℃	_	

^{**}Switches automatically to 1℃ resolution range when measured temperatures fall outside the 0.1℃ resolution range.

*TABLE II (Measurement accuracy)

Type	Resolution	Measurement range	Measurement accuracy		
		0℃~	\pm (0.1% of reading $+$ 1°C)		
	1℃	-100~-1°C	\pm (0.5% of reading $+$ 1°C)		
E, K, J, T		-200~-101°C	\pm (1% of reading $+$ 2°C)		
	0.1℃	0.0℃~	± (0.1% of reading + 0.3℃)		
	0.10	-100.0∼-0.1°C	± 0.5℃		
R	1℃	0°C∼1760°C	\pm (0.1% of reading $+$ 3°C)		

Not including reference junction compensation accuracy, at 25°C \pm 10°C

*TABLE III (Battery life)

The state of the s								
Interval	0.1sec	1sec	10sec	10min				
Battery life	approx, 20h	approx. 40h	approx. 80h	approx. 240h				

 $[\]ensuremath{\text{\%}}$ Note:When operated with AA Alkaline batteries at 25 $^\circ\!\text{C}$ typ.

Supplied accessories

Soft case SC-6 SC-12



Communication cable AM-USB (for USB)

for AM-80**

Communication cable AM-RS9 (for RS-232C)



Optional accessories

AC-Adaptor A-115-200-HR (for AC115V) A-220-200-HR-R (for AC220V)



Not CE-approval

