Model AM-8000 series

Compact Thermologger

CF

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

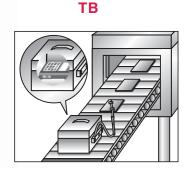
AM-8000模式系列产品是简便型温度数据记录器。 可以记忆储存测试数据并通过专用软件转送到电脑中进行数据处理。

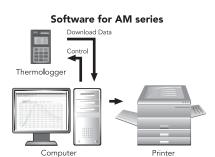
AM-8000シリーズは、ハンディタイプの温度データロガーです。 計測データをメモリし専用ソフトにてパソコンへ転送することで、 データ処理が可能です。

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.

TB-6002

Heat-resistant box for 6ch model

Application limit: 300°C/20min

External dimensions:

220 (W) ×175 (H) ×315 (D) mm (not including protrusions)

Weight: approx. 10kg

TB-6003-SP13

Waterproof box for 6ch model

Application limit : 100°C/60min

External dimensions:

 $170 \text{ (W)} \times 135 \text{ (H)} \times 405 \text{ (D)} \text{ mm}$ (not including protrusions)

Weight: approx. 5.5kg

*The above products are sold separately. Please contact us for more information.

Software specifications

The software enables use of data on a PC.

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

Compatible OSs

Windows 98SE / Me / NT4.0 (SP3 or more) / 2000 / XP

*For English OS only

*Software is sold separately.

Kind of AM-8000 series

Model		Inte	Interface		Number of inputs		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		•		•	•	•	•	•	

^{*}Except remote measurement.

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			
Measurement range					DC Voltage : ±19.999V			
Resolution	0.1°C / 1°C (fixed)				Temperature : 0.1°C / 1°C (fixed)			
nesolution	U.T.C./T.C.(fixed)				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		31.1	RS-232C		US	B1.1	RS-2	232C
Dimensions / Weight	92 (W) \times 155 (H) \times 36 (D) mm / approx. 380g (including dry			atteries)				

12ch. model

Model	AM-8010	AM-8011	AM-8110	AM-8111	AM-8060	AM-8061	AM-8160	AM-8161
Input type	Temperature	nperature			Temperature / DC Voltage			
Measurement range	*TABLE I				Temperature : *TABLE I			
Measurement range	IABLE I				DC Voltage : ±19.999V			
Resolution	0.1% (1% (6				Temperature : 0.1°C / 1°C (fixed)			
nesolution	0.1°C / 1°C (fixed)				DC Voltage : 0.001V			
Management	*TABLE II				Temperature : *TABLE II			
Measurement accuracy	IABLE II				DC Voltage : $\pm 0.06\%$ of reading + 0.02% of F/S			
Memory capacity	120,000 data	120,000 data						
High-speed interval	1 sec. 0.2 sec. 1 sec. USB1.1 RS-23		0.2 sec.	1 sec.	0.2 sec.	1 sec.	0.2 sec.	
Interface			RS-232C		USB1.1 RS-232C		232C	
Dimensions / Weight	96 (W) \times 160 (H) \times 60 (D) mm / approx. 480g (including			Iry batteries)				

Common specifications

Common specifications					
Input connector	ANP connector (Miniature plug)				
Reference junction compensation accuracy	±0.3°C (at 25°C±10°C) ± (0.01% / °C) of measurement range except 25°C±10°C				
Temperature coefficient					
Interval time	Standard mode: 1 second to 99 minutes 59 seconds High-speed mode (6ch.model): 0.10 seconds to 0.99 seconds High-speed mode (12ch.model): 0.20 seconds to 0.99 seconds	In the case of remote measurement through a PC: 1 second to 99 minutes 59 seconds			
Signal source resistance	Temperature : 500Ω or less (standard mode) , 100Ω or less (high-speed mode) DC Voltage : Input impedance app. $2M\Omega$ or less				
Safe excitation voltage	Between input pins on same channels : \pm 10V DC (temperature) , \pm 30V DC (Voltage) Between input pins on adjacent channels : \pm 60V AC				
Linearlizer	Digital Linearlizer method (Compliant with IEC 60584-1 (1995))				
Interface	USB 1.1 MINI-B or RS-232C				
Display	Graphic liquid crystal display, 128×64 dots (55×27mm)				
Operational environment	0~40°C, 20~80%RH (Without dew)				
Storage environment	-10~50°C, 10~90%RH (Without dew)				
Power supply	4"AA" (LR6) Alkali Batteries Option : AC-Adaptor				
Accessories	Manual, Softcase, 4 batteries, Communications cable (USB or RS-232C)				
Option	AC-Adaptor, Special data analysis software (AMS-850), Carrying case				

*TABLE I (Measurement range)

	•	9 7
Туре	1℃ Range	0.1℃ Range
E	-200∼ 800°C	
K	-200∼1370°C -100.0∼500.0	
J	-200∼1100°C	
Т	-200∼ 400°C	-100.0∼400.0°C
R	0~1760°C	_

*TABLE II (Measurement accuracy)

Туре	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℃)		
		-100.0∼-0.1°C	± 0.5℃		
R	1℃	0℃~1760℃	\pm (0.1% of reading $+$ 3°C)		

Not including reference junction compensation accuracy, at $25^\circ\!\text{C}{\pm}10^\circ\!\text{C}$

*TABLE III (Battery life)

		-		
Interval	0.1sec	1sec	10sec	10min
Battery life	approx, 20h	approx, 40h	approx. 80h	approx. 240h

AC-Adaptor

Note: When operated with alkaline AA-size dry batteries at 25℃ type.

Option

AC-Adaptor A-100/240-HR $(\text{for AC100}{\sim}240\text{V})$



A-115-200-HR (for AC115V)

Not CE-approval



Accessories



Soft case SC-6 SC-12

Communication cable AM-USB (for USB)



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



