

Model HD-1000 series handheld thermometers allow easy temperature measurement.

These general-purpose thermometers can be used for on-site temperature measurement and various other applications.

HD-1000模式系列

追求高精准度,可靠性,操作简单的HD-1000系列可以和安立 计器的多种多样的温度传感器配合使用于不同领域。

HD-1000シリーズは、簡単に温度測定が出来るハンディタイプの温度計測 器です。現場での温度チェックなど、汎用的にご使用いただけます。



Function of HD-1000 series

ASP model	ANP model	WATER PROOF	DISPLAY	BACK LIGHT	AUTO OFF	HOLD	P/V HOLD	1/0.1	CAL	ALARM	ANALOG	°C/'F	MEMORY
HD-1100K HD-1100E	HD-1150K HD-1150E	•	LCD		•	•						°C	
HD-1200K HD-1200E	HD-1250K HD-1250E	•	LCD	•	•	•	•	•				°C	
HD-1201K HD-1201E	HD-1251K HD-1251E		LCD	•	•	٠	•	•			1mV/°C	°C	
HD-1202K HD-1202E	HD-1252K HD-1252E		LCD	•	•	•	•	•			10mV/°C	°C	
HD-1300K HD-1300E	HD-1350K HD-1350E		LCD	٠	•	•	•	•	•	•		۰C	
HD-1301K HD-1301E	HD-1351K HD-1351E		LCD	•	•	•	•	•	•	•	1mV/°C	°C	
HD-1302K HD-1302E	HD-1352K HD-1352E		LCD	•	•	•	•	•	•	•	10mV/°C	°C	
HD-1400 K HD-1400 E	HD-1450K HD-1450E	•	LED		•	•						°C	
HD-1500K HD-1500E	HD-1550K HD-1550E		LCD	•	•	•	•	•				°C	•
/	HD-1650K HD-1650E	•	LCD		•	•						°C/'F	
	HD-1750K HD-1750E	•	LCD	•	•	•	•	•				°C/'F	

Connector type 连接传感器

2 types of connectors available 有2种插口可供选择。



ASP: Standard size connector



ANP: Miniature size connector

Functions 功能

Waterproof specifications 防水功能	Memory function 记录功能
Waterproof specifications : Equivalent to IPX5 Protected against water jets - Water projected at all angles through a 6.3mm nozzle at a flow rate of 12.5 liters/min at a pressure of 30kN/m² for 3 minutes from a distance of 3 meters. IPX5防水功能。可防御来自任何方向的喷水(12.5L/分)。	Stores readings at user - selected time intervals. User specified time interval and the remaining amount of memory are displayed on the sub-display. The playback function allows you to check data stored in memory. 设定记录间隔和剩余可记录数同时显示。 可回放显示所记录的温度数据。
Display 显 示	Backlight 背光灯
Large easy - to - read LCD display 便于确认的大型显示屏	The backlight will operate by the 🧱 key and the LCD display will be visible even in a dark place. 按 🎆 健打开背光灯,可在黑暗处确认数据
Auto power - off 自动关闭	1/0.1 Resolution change 分辨率切换
The thermometer will turn the power off automatically after 5 minutes. 5分钟以上不使用按钮,主机将自动关闭。	Press the 🚥 key to change the resolution of readings. 按ឈ3键切换分辨率
HOLD Hold 固定测量数据	P/V Hold P/V 值固定
The thermometer stops measurement by the key and holds the present readings. 按 1 () () () () () () () () () () () () ()	The peak (Max.) value and the valley (Min.) value can be displayed by the 🐼 key on the sub-display. 可固定測量温度的最大值或最小值
CAL Calibration 校准	ALM Alarm output 报警输出
The displayed value can be adjusted by the 留 key. 可设定测量标准值。 2000	The thermometer gives an alarm when readings go beyond the high or low limits. 表示温度超出设定范围外时。可显示・蜂鸣・信号输出进 行警告。
Analog output 模拟输出	℃/°FChange °C/°F切换
1mV/℃ Output 1mV per ℃ in conjunction with readings. 10mV/℃ Output 10mV per ℃ in conjunction with readings. 电压输出时1℃为1mV或1℃为0.1mV。	Press the 🚥 key to change the temperature unit of the displayed temperature. 按ᡂ健切换で与"F。

Software for HD-15*0 (AMS-100) 专用软件

Data stored in memory can be transmitted to a personal computer through a USB interface and can be converted into CSV files. 可用USB导线将数据传到电脑,以CSV形式保存。 USB interface Download data

Easily create graphs and tables from CSV files by Microsoft® Excel® or other spreadsheet software. 用Excel等软件进行制表·画图。



Operational environment of software (AMS-100)

0 8	Microsoft® Windows® 7, Windows® 8.1, Windows® 10(for English)	
Memory · Hard-disk space	Normal operating environment of OS	

PC

All PCs under the recommended environment are not guaranteed to work successfully with AMS-100.
AMS-100 can be used only by the user that has a system administrative right (Administrator).
AMS-100 does not support Mac OS.

HD-15*0K HD-15*0E

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* Image picture of waterproof specifications ※ 防水功能图片



* Image picture of temperature measurement ※ 测量温度图片

●Supplied accessories and Optional accessories 附件和选件

Supplied accessories

Test report 试验成绩书



Supplied accessories

Red

Red

Alarm output cable

Red

Blue

8 Black

报警输出线

Soft case 主机套



SCHD Thermometer not included 不包括本体。

Hand strap 手带



Thermometer not included 不包括本体。

Optional accessories AC-Adaptor AC电源



AD-115-500-HR-R (for AC115V) AD-220-500-HR-R (for AC220V) Not CE-approval



ALMHA-1.5

An alarm output cable and an analog output cable cannot be used simultaneously. ※不能同时使用报警输出线和模拟输出线

ANGHA-1.5



Specifications

N	lodel	HD-1100 HD-1150 HD-1650	HD-1200 HD-1250 HD-1750	HD-1201 HD-1251	HD-1202 HD-1252	HD-1300 HD-1350	HD-1301 HD-1351	HD-1302 HD-1352	HD-1400 HD-1450	HD-1500 HD-1550	
Waterproof specifications/Equivalent to IPX5		•	•						•		
Display		LCD	LCD LCD with Backlight						LED	LCD with Backlight	
Input of	connector	ASP model : HD-1*0* / ANP model : HD-1*5*									
Ch	annel	1ch									
Inp	ut type	Thermocou	ple input : Typ	e E or K (HD	-1*0*) / Typ	e E, K, J, T or	R (HD-1*5*) Not switchal	ble		
Signal sou	rce resistance	MAX 500 Ω									
Measure	ment range	*TABLE I									
Measurem	nent accuracy	*TABLE II									
Reference junction	compensation accuracy	±0.2°C at 2	25°C±10°C [±0.4°F at 77°I	F±18°F]						
	re coefficient	±0.01% of	F/Sper C [±0.01% of F	/Sper*F]	₩ F / S : full s	cale				
	Operation	0~40°C, 0~80%RH (Non condensing) [32~104°F, 0~80%RH (Non condensing)]									
Environmental	Storage	-20~50'C, 0~85%RH(Non condensing) [-4~122"F, 0~85%RH(Non condensing)]									
Bat	tery life	300h	300 h	150h	150h	300h	150h	150h	150h	150h	
	Dry battery	4 AA Alkali	ne batteries								
Power supply AC power		-	-	AC-Adaptor (Option) -					AC-Adapt (Option)		
Samp	bling rate	approx. 300ms approx. 300ms									
Plin	earlizer	Digital linearlizer method (Compliant with IEC 60584-1 (2013))									
Dime	ensions	approx, 76(W) × 167(H) × 36(D) mm [Protruded parts excluded]									
W	/eight	approx. 350g [Include Batteries]									
			st report, Soft		rap,4 AA Alka	aline batteries	8				
Supplied	accessories		_	Analog ou	tout cablo	Alarm output cable				Communication cable, Software (AMS-100)	
		7458	562	Analog output cable		-	Analog output cable		s 1236		
				1mV/C	10mV/C		1mV/°C	10mV/°C			
Anaio	g output	225	327.	*TABLE III	*TABLE III		*TABLE III	*TABLE III			
Alarr	n output	-	-	-	(#)	TABLE IV	TABLE IV	*TABLE IV	A.=38	870	
Memor	y function		-		-	600	-	-		TABLE V	
Compatible standards		CE Marking	, RoHS					1		1	

*TABLE I (Measurement range)

The sum a second a design		5	"F		
Thermocouple type	1°C Resolution	0.1°C Resolution	1°F Resolution	0.1°F Resolution	
E	-200~ 800°C	-200~ 800°C			
к	-200~1370°C	-100.0~500.0°C	-328~2498°F	-148.0~932.0°F	
J	-200~1100°C		-328~2012°F		
т	-200~ 400°C	-100.0~400.0°C	-328~ 752°F	-148.0~752.0°F	
R	0~1760°C		32~3200°F		

* Switches automatically to 1°C resolution range when measured temperatures fall outside the 0.1°C resolution range.

Themocouple type			r			°F
	0.1°C	~°°0	± (0.05% of reading + 0.2°C)	0.1°F	32°F~	± (0.05% of reading + 0.4°F)
	Resolution	~0°C ± 0.5°C		Resolution	~32°F	± 0.5°F
E, K, J, T	1°C	o℃~	± (0.1% of reading +1°C)	1°F	32°F~	± (0.1% of reading +2°F)
	Resolution	~0°C	± (0.5% of reading +1°C)	Resolution	~32°F	± (0.5% of reading +2°F)
R	1°C Resolution		± (0.1% of reading +3°C)	1°F Reso	lution ± (0.1% of reading +6°F)	

*TABLE III (Analog output)

Model	HD-12*1 H	D-13*1	HD-12*2	HD-13*2	
Rate	1mV/C		10mV/°C		
Range	All range at 1°C	All range at 0.1°C resolution			
Resistance	100 Ω				
Accuracy	± (0.15% of F/S +1mV) at 25°C±5°C ± (0.15% of F/S +1mV) ± (0.01% of F/S) except 25°C±5				

*TABLE IV (Alarm output)

Output pattern	Upper limit	Lower limit
More than upper limit	H (5V)	L (0V)
Between upper and lower limit	L (0V)	L (0V)
Less than lower limit	L (0V)	H (5V)

₩ Signal current of up to 5 mA can be taken out.

*TABLE V (Memory function)

Time interval	1second, 5seconds, 10seconds, 30seconds, 1minute, 5minutes, 10minutes, 30minutes, 60minutes and manual memory
Memory capacity	9999 data