



Temperature Measurement Specialists

# HANDHELD THERMO PRINTER

打印机式温度计

AP-400 Series 系列



### Manual Print 手动打印

12:20:05	100.0℃
12:20:19	100.2℃
12:20:30	99.7℃

### Interval Print 间隔打印

13.7.25	
AUTO 35	
12:40:35	25.0℃
12:40:38	27.2℃

Time interval : 3s, 10s, 30s, 1min, 5min, 10min, 30min and 60min  
 间隔时间 : 3秒·10秒·30秒·1分·5分·10分·30分·60分



### Number Print 代码打印

13.7.25	
NUMBER PRINT	
0001	25.0℃
0002	27.2℃
0003	32.3℃

### Memory function 记录功能

The memory function makes it possible to batch print the measured data stored in the internal memory. (max.100 lines data)  
 数据可记录于主机内部后进行统一打印 (最多记录100行)

ANRITSU ANRITSU METER CO.,LTD.



**Connector type 连接传感器**  
2 types of connectors available  
有2种插口可供选择

**ANP** : Miniature size connector  
AP-450K side view 侧面

**ASP** : Standard size connector  
AP-400K side view 侧面

**Compact and Light weight 小型·轻量**

**Print function 打印功能**

- Manual print 手动打印**  
Manual print-out is available simply by pushing the **PRINT** key.  
Measured data with absolute time (Hours: Minutes: Seconds) can be printed.  
按 **PRINT** 键可打印测量时间和温度
- Interval print 间隔打印**  
The **SET** key enables the operator to select a time mode from eight kinds of intervals.  
按照设定的间隔打印测量时间和温度  
Time interval : 3s, 10s, 30s, 1min, 10min, 30min and 60min  
间隔时间 : 3秒·10秒·30秒·1分·5分·10分·30分·60分
- Number print 代码打印**  
The numbering print provides the sequential numbering and measured data.  
按 **START** 键打印温度数据代码和温度

**Memory function 记录功能**  
The memory function makes it possible to batch print the measured data stored in the internal memory. (max. 100 lines data)  
数据可记录于主机内部后进行统一打印 (最多记录100行)

**Hold function 固定测量数据**  
The thermometer stops measurement by the **HOLD** key and holds the present readings.  
按 **HOLD** 键, 可固定测量数据并保持该数据的显示

**Power supply 电源**  
4 AA (LR6) alkaline dry cells or AC adaptor (optional accessory)  
单3电池 (LR6) 4只或专用AC电源 (另售)

### ● Specifications

Model	AP-400E AP-450E	AP-400K AP-450K
Input connector	ASP model : AP-400 ANP model : AP-450	
Channel	1ch	
Input (thermocouple type)	type E	type K
Signal source resistance	MAX. 500Ω	
Measurement range	1°C range	-200~800°C
	0.1°C range	-104.9~504.9°C
Measurement accuracy	1°C range	0°C~ : ± (0.1% of reading + 1) °C ~0°C : ± (0.5% of reading + 1) °C
	0.1°C range	0°C~ : ± (0.05% of reading + 0.2) °C ~0°C : ± 0.5°C
Reference junction compensation accuracy	±0.2°C at 25°C ± 10°C	
Temperature coefficient	±0.01% of measurement range / °C : Outside 25°C ± 10°C	
Battery life	Non-printing mode : Approx. 110 hours	
	1-minute interval : Approx. 120 hours	
Power supply	Dry battery	4 AA Alkaline dry cell batteries
	AC power	AC Adaptor (optional accessories)
Dimensions	approx. 68 (W) × 201 (H) × 42 (D) mm	
Weight	approx. 350g (include batteries)	
Supplied accessories	Soft case, 4 AA Alkaline dry cell batteries, Paper jam fixer, User's manual, Print paper, Test report and User registration form	

### ● Optional accessories

<b>AC-adaptor</b>
AD-115-500-HR-R (for AC115V)
AD-220-500-HR-R (for AC220V)
<b>Print paper</b>
ACAP4 (5 pcs/set)

# Model AP-400 series

## Thermo Printer

Model AP-400 series thermometers have built-in printers for on-the-spot printing of measurement data.

### AP-400模式系列

AP-400模式系列产品是内装打印机型温度计。测定出的数据可以立即打印。

AP-400シリーズは、プリンタを内蔵した温度計測器です。測定データを、その場で印刷する事ができます。

AP-400K  
AP-400E



AP-400K

AP-450K  
AP-450E



AP-450K

## Functions 功能

<p><b>Manual print</b> 手动打印</p> <p>Manual print-out is available simply by pushing the <b>PRINT</b> key. Measured data with absolute time (Hours:Minutes:Seconds) can be printed.</p> <p>按 <b>PRINT</b> 键可打印测量时间和温度。</p>	<p><b>Interval print</b> 间隔打印</p> <p>The <b>SET</b> key enables the operator to select a time mode from eight kinds of intervals.</p> <p>按照设定的间隔打印测量时间和温度。</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>Time interval : 3s,10s,30s,1min,5min,10min, 30min and 60min 间隔时间 : 3秒·10秒·30秒·1分·5分·10分·30分·60分</p> </div>
<p><b>Number print</b> 代码打印</p> <p>The numbering print provides the sequential numbering and measured data.</p> <p>按 <b>RESTART</b> 键打印温度数据代码和温度。</p>	<p><b>Memory function</b> 记录功能</p> <p>The memory function makes it possible to batch print the measured data stored in the internal memory. (max. 100 lines data)</p> <p>数据可记录于主机内部后进行统一打印。(最多记录100行)</p>
<p><b>Hold function</b> 固定测量数据</p> <p>The thermometer stops measurement by the <b>HOLD</b> key and holds the present readings.</p> <p>按 <b>HOLD</b> 键, 可固定测量数据并保持该数据的显示。</p>	<p><b>Power supply</b> 电源</p> <p>4AA (LR6) alkaline dry cells or AC adaptor (Optional accessory)</p> <p>单3电池 (LR6) 4只或专用AC电源。(另售)</p>



## Specifications

Model	AP-400		AP-450
Display	LCD		
Input connector	ASP	ANP	
Input type (Thermocouple input)	Type E or K (Not switchable)	Type E, K, J, T or R (Not switchable)	
Channel	1ch		
Signal source resistance	MAX 500Ω		
Measurement range	*TABLE I		
Measurement accuracy	*TABLE II		
Reference junction compensation accuracy	±0.2°C at 25°C ±10°C		
Temperature coefficient	±0.01% of measurement range / °C : Outside 25°C ±10°C		
Environmental limit	Operation	0~40°C, 0~80%RH (Non condensing)	
	Storage	-20~50°C, 0~85%RH (Non condensing)	
Sampling rate	*TABLE III		
Battery life	*TABLE III		
Power supply	Dry battery	4 AA Alkaline dry cell batteries	
	AC power	AC Adaptor (Optional accessories)	
Linearizer	Digital linearizer method (Compliant with IEC 60584-1 (1995))		
Print out	Character size 2,5mm, Paper width 37mm (1000 lines/roll), Thermal line dot printing		
Memory	100 data		
Internal battery	Lithium battery (For clock backup)		
Dimensions	Approx. 68 (W) × 201 (H) × 42 (D) mm [Protruded parts excluded]		
Weight	Approx. 350g [Include batteries]		
Supplied accessories	Soft case, 4 AA Alkaline dry cell batteries, Paper jam fixer, User's manual, Print paper (ACAP4), Test report, User registration form		
Optional accessories	AC Adaptor		

**\*TABLE I (Measurement range)**

Thermocouple type	°C	
	1°C Range	0.1°C Range
E	-200 ~ 800°C	-104.9 ~ 504.9°C
K	-200 ~ 1370°C	
J	-200 ~ 1100°C	
T	-200 ~ 400°C	-104.9 ~ 400.0°C
R	0 ~ 1760°C	

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

**\*TABLE III (Sampling rate and Battery life)**

Interval	Sampling rate	Battery life
No printing mode	2 times / second	approx. 40hours
3 seconds	2 times / second	approx. 25hours
10 seconds	1 time / 5seconds	approx. 45hours
30 seconds	1 time / 5seconds	approx. 80hours
1 minute	1time / 10seconds	approx. 100hours
5 minutes	1time / minute	approx. 110hours
10 minutes	1time / minute	approx. 120hours
30 minutes	1time / minute	approx. 120hours
60 minutes	1time / minute	approx. 120hours

**\*TABLE II (Measurement accuracy)**

Thermocouple type	°C		
	0.1°C Range	0°C ~	± (0.05% of reading + 0.2°C)
E, K, J, T			~0°C
	500°C ~		± (0.1% of reading + 1°C)
	1°C Range	~-100°C	± (0.5% of reading + 1°C)
R	1°C Range		± (0.1% of reading + 3°C)

## ● Supplied accessories

Soft case 主机套



Thermometer not included  
不包括本体

Print paper 打印紙  
ACAP4



5 pcs/set

Paper jam fixer 镊子



## ● Optional accessories

AC Adaptor AC电源

AD-115-500-HR-R (for AC115V)  
AD-220-500-HR-R (for AC220V)

