

## HH-1304P Printing Thermometer (2 Channel)

Accepts Thermocouple Types K, J, T, E

The HH-1304P portable printing thermometer is an easy to use, dual-channel hand-held thermometer that accepts the most popular thermocouple types as input: K, J, T and E.

Simply connect your thermocouple(s) using an industry standard miniature thermocouple plug. The clear LCD display enables easy selection of the T1 and T2 channels, T1-T2 differential and auto-scroll of T1, T2 and T1-T2.

The thermometer also features a programmable high/low alarm, with the option of output to an existing alarm circuit via a supplied 1m mini DIN cable.

Temperatures can be printed, at a selectable time interval, on to the paper roll which allows a 'hard copy' to be kept for future reference.

The thermometer can be battery powered (6 x AAA alkaline batteries) or mains powered (9V power adaptor available separately).

A simple, cost-effective solution for applications where permanent 'tamper proof' printed records are required.

- Built-in thermo printer with programmable timer interval
- Dual channels (T1, T2 and T1-T2)
- Accepts Thermocouple Types K, J, T, E
- MIN, MAX, AVG, Hi/Lo Alarm, Over range indication
- Auto scroll of T1, T2, T1-T2
- Low battery indicator
- 4½ digit LCD display
- Battery or mains powered (9V power adaptor available separately)
- Supplied with hard carry case, instruction manual, batteries, 2 rolls of thermopaper, mini DIN cable (for optional alarm output)
- Replacement thermopaper available

Technical Details	
<b>Input (miniature plug) *</b>	2 x Thermocouple
<b>Measurement Range</b>	<b>K</b> -200°C to +1333°C (-328°F to +2431°F)
	<b>J</b> -200°C to +760°C (-328°F to +1400°F)
	<b>T</b> -200°C to +400°C (-328°F to +752°F)
	<b>E</b> -200°C to +703°C (-328°F to +1297°F)
<b>Accuracy **</b>	<b>K</b> ±(0.01% of reading +0.5°C) (0°C ~ +982°C) ±(0.05% of reading +0.5°C) (+982°C ~ +1333°C) ±(0.01% of reading +0.9°F) (+32°F ~ +1800°F) ±(0.05% of reading +0.9°F) (+1800°F ~ +2431°F)
	<b>J</b> ±(0.01% of reading +0.5°C) (0°C ~ +760°C) ±(0.01% of reading +0.9°F) (+32°F ~ +1400°F)
	<b>T</b> ±(0.01% of reading +0.5°C) (0°C ~ +400°C) ±(0.01% of reading +0.9°F) (+32°F ~ +752°F)
	<b>E</b> ±(0.01% of reading +0.5°C) (0°C ~ +703°C) ±(0.01% of reading +0.9°F) (+32°F ~ +1297°F)
	<b>K, J, T, E</b> ±(0.5% of reading +0.7°C) (-200°C ~ 0°C) ±(0.5% of reading +1.4°F) (-328°F ~ +32°F)
<b>Resolution</b>	0.1°C / 0.1°F
<b>Temperature Coefficient</b>	Less than 0.1 times the accuracy specification per °C(°F)
<b>Input Protection</b>	60V DC or 24 Vrms AC maximum input voltage on any combination of input connector
<b>Sample Rate</b>	Every 1 second
<b>Display</b>	4½ digit LCD
<b>Operating Temp./Humidity</b>	0°C to +50°C (+32°F to +122°F) below 90 %RH
<b>Storage Temp./Humidity</b>	-10°C to +60°C (+14°F to +140°F) below 70 %RH
<b>Power</b>	6 x 1.5V AAA batteries (supplied)
<b>Battery Life</b>	~30 hours (60 minutes interval printing, no beeper) ~70 hours (no printing, no beeper)
<b>Dimensions</b>	193mm (L) x 74mm (W) x 37mm (H)
<b>Weight</b>	~385g (including batteries and thermopaper)

\* Thermocouple(s) not supplied - available separately

\*\* Accuracy stated is for thermometer only. Thermocouple sensor inaccuracy should also be considered



Supplied with 2 rolls of thermopaper (replacements available)



2 x thermocouple K,J,T,E inputs



Supplied 1m mini DIN cable for external alarm



Optional 9V power adaptor for external alarm



Hard carry case

order code

UK Power Adaptor  
HH-1304PA

Thermopaper (2 rolls)  
HH-1304PP

Printing Thermometer  
HH-1304P