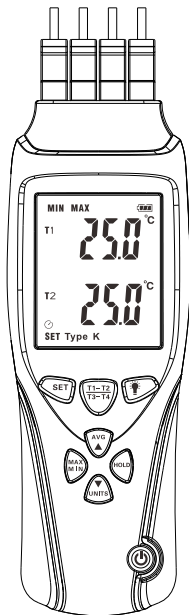


User Manual

Thermocouple Thermometer



***Please read this user manual thoroughly before using
this unit and keep it for your future reference.***

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1. Safety

Read the following safety information carefully before attempting to operate the meter.

Use the meter only as specified in this manual; otherwise, the warranty may be invalidated.

◆ Environment conditions:

Altitude up to 2000 meters

$RH \leq 90\%$ (Non-Condensation)

Operating Temperature: $-25^{\circ}\text{C} \sim 70^{\circ}\text{C}$

◆ Maintenance

Repairs or servicing should only be performed by ATP Instrumentation Ltd.

Cleaning: Wipe the unit with a dry soft cloth. Do not use abrasives or solvents on this instrument.

◆ Safety Symbol

 Complies with EMC

2. Features

This device is a contact thermometer with Type K/J dual input. It is widely used in safety and fire inspection, plastic moulding, asphalt, marine, printing ink and ink dryer temperature, diesel and fleet maintenance.

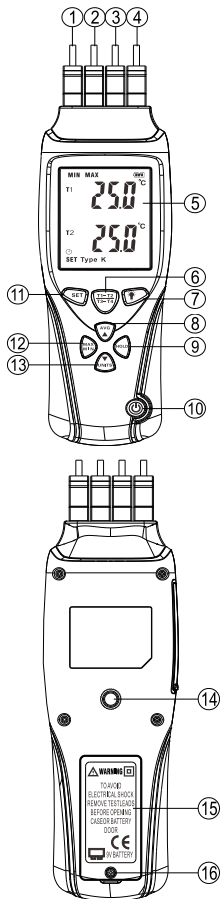
- ◆ Precise contact measurement
- ◆ Type K/J dual input measurement
- ◆ Four measurements and dual displays
- ◆ Large LCD display with backlight
- ◆ MAX,MIN,AVG,HOLD function
- ◆ °C/°F selection
- ◆ Auto power off

3. Specifications

Range	Type K	-200°C ~ 1370°C(-328°F~2498°F)
	Type J	-200°C ~ 1100°C (-328°F~2012°F)
Accuracy	Type K	-200°C~0°C(-328°F~32°F); $\pm(0.5\%rdg+2^{\circ}C/3.6^{\circ}F)$
		0°C~1000°C(32°F~1832°F); $\pm(0.15\%rdg+1^{\circ}C/1.8^{\circ}F)$
		1000°C~1370°C(1832°F~2498°F); $\pm(0.5\%rdg+1^{\circ}C/1.8^{\circ}F)$
	Type J	-200°C~0°C(-328°F~32°F); $\pm(0.5\%rdg+2^{\circ}C/3.6^{\circ}F)$
		0°C~1000°C(32°F~1832°F); $\pm(0.15\%rdg+1^{\circ}C/1.8^{\circ}F)$
		1000°C~1100°C(1832°F~2012°F); $\pm(0.5\%rdg+1^{\circ}C/1.8^{\circ}F)$
Resolution	0.1°C/ °F <1000 , 1°C / °F / > 1000	
AVG	The average value for last 10 readings	
Power Supply	1x 9V battery	
Power Life	At least 30 hours	
Operating conditions	-20°C~60°C, 10%RH~90%RH	
Storage conditions	-20°C~60°C, 10%RH~75%RH	
Dimensions (L*W*H)	185 x 66 x 33 mm	
Weight	245g	

4. Meter Description

- ① T4 thermocouple sensor
- ② T3 thermocouple sensor
- ③ T2 thermocouple sensor
- ④ T1 thermocouple sensor
- ⑤ LCD display
- ⑥ T1-T2 & T3-T4 function button
- ⑦ Backlight button
- ⑧ AVG button
- ⑨ HOLD button
- ⑩ Power ON/OFF button
- ⑪ Set selection button
- ⑫ MAX/MIN button
- ⑬ Units select button
- ⑭ 1/4" Tripod bush
- ⑮ Battery cover
- ⑯ Battery cover screw



5. LCD Display Description

① Min icon

② Max icon

③ Low battery Icon

④ Temp. units icon

⑤ T1/T3 reading

⑥ Temp. units icon

⑦ T2/T4 or T1-T2/T3-T4 reading

⑧ Data Hold icon

⑨ AVG icon

⑩ Type K/J thermocouple

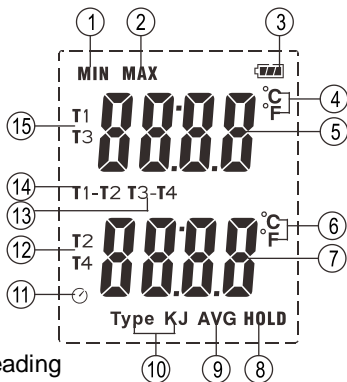
⑪ Auto power off icon

⑫ T2/T4 icon

⑬ T3-T4 icon

⑭ T1-T2 icon

⑮ T1/T3 icon



Note: When T1-T2 icon appears, the ⑦ area displays the DIF value for T1-T2. When T3-T4 icon appears, the DIF value for T3-T4 is displayed.


6. Operating Instructions

6.1 Operating steps

6.1.1 Open the battery compartment, install a 9V battery and close the battery compartment cover.

6.1.2 Connect thermocouples


6.1.3 Power the meter on to start measurement.

Note: 1. When the low battery icon "" appears, replace the meters' battery.

2. Whilst measuring, the tip of the temperature sensor must be fully in contact with the object being measured.


6.2 Button Function

6.2.1  Button:


After powering the meter on, press "" button to select the measuring of T1-T2 or T3-T4. Press and hold the button for 3 seconds to select K-type or J-type measurement.



6.2.2 Button:


Under measuring mode of T1-T2, press "" button once, T1-T2 icon will appear on the LCD display and the DIF value for T1-T2 will be shown at the T2 display area. Press this button again to enter into T2 measurement mode.



Under measuring mode of T3-T4, press "" button once, T3-T4 icon will appear on the LCD display and the DIF value for T3-T4 will be shown at the T4 display area. Press this button again to enter into T4 measurement mode.




6.2.3 Button:

After powering the meter on, press "" button to turn the backlight on/off. The meter will be automatically powered off after 30 seconds inactivity.




6.2.4 Button:



After powering the meter on, press "" button to freeze


the current reading, press it again to return to normal mode.


6.2.5  Button:



Whilst measuring, press “” button, AVG icon will appear, then the LCD screen will display the average of the last 10 readings. Press this button again to return to normal mode.

6.2.6  Button:

Whilst measuring, press “” button once to view the current MAX/MIN reading. Press and hold “” button for 3 seconds to return to normal mode.

6.2.7  Button; After powering the meter on, press

“” button to select °C or °F.

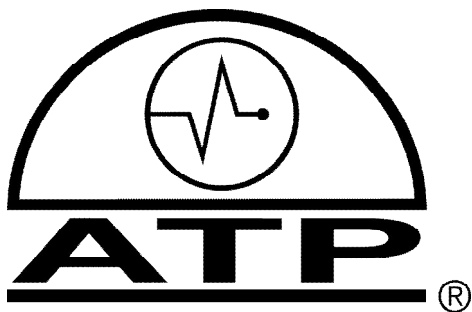
6.2.8  Button: After installing the battery, press “” button to power the meter on. Press and hold this button for 3 seconds to turn the meter off.

7. Notes

- ◆ Repairs or servicing should only be performed by ATP Instrumentation Ltd.
- ◆ Remove the battery when the meter is to be stored for long periods of time to avoid battery leakage.
- ◆ Check if the thermocouple is well connected with the meter (Plug the thermocouple into the meters' thermocouple input jack).

8. Accessories

- ◆ User manual
- ◆ Tripod (Optional)
- ◆ 9V Battery
- ◆ 4 Type-K thermocouples



ATP Instrumentation Ltd
Tournament Way
Ashby-de-la-Zouch
Leicestershire
LE65 2UU

Sales: 01530 566 800 sales@atp-instruments.co.uk

Repair and Calibration: 01530 566 804 technical@atp-instruments.co.uk

www.atp-instrumentation.co.uk