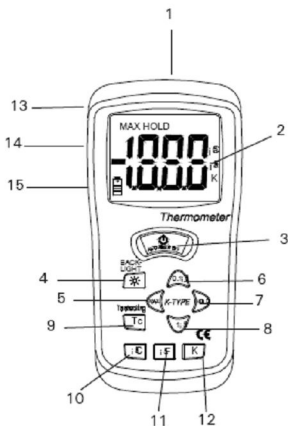




**Bedienungsanleitung
Users' Manual
Mode d'emploi**

**1-Kanal-Temperaturmessgerät
Thermocouple Thermometer
Thermomètre digital LCD à 1 canal
FT 1300-1**





BEDIENELEMENTE

- 1) Anschluss K-Type-Temperaturfühler
- 2) Display
- 3) Ein-/Aus-Schalter
- 4) Hintergrundbeleuchtung
- 5) Max-Funktion
- 6) Auflösung 0,1°C
- 7) HOLD
- 8) Auflösung 1°C
- 9) Interner Kontrollfühler
- 10) Umschaltung ° Celsius
- 11) Umschaltung ° Fahrenheit
- 12) Umschaltung Kelvin

KEYPAD

- 1) K-Type thermocouples
- 2) Display
- 3) On/Off button
- 4) Backlight
- 5) Max-function
- 6) Resolution 0,1°C
- 7) HOLD
- 8) Resolution 1°C
- 9) Temperature compensator
- 10) Switch for ° Celsius
- 11) Switch for ° Fahrenheit
- 12) Switch for Kelvin
- 13) ¼" tripod thread (reverse side)
- 14) Holder (reverse side)
- 15) Battery case (reverse side)

SUPPLIED WITH

Thermometer FT 1300-1, flexible wire probe TP-300, battery, case, manual

OPTIONAL ACCESSORIES

Flexible wire probe K-type element Ø 2,5 mm, all-purpose probe K-type element Ø 3 mm, flexible steel probe K-type element Ø 2 mm, surface temperature probe K-type element, right angle surface temperature probe K-type element

TECHNICAL DATA

Temperature scale	Celsius (°), Fahrenheit (°) oder Kelvin (K)	
Temperature range	-50°C - 1300°C / -58°F - 2000°F / 223K - 2000K	
Resolution	1°C or 1°F / 0,1°C or 0,1°F / 1K	
Accuracy	-50°C - 0°C	± 2°C
	0°C - 1000°C	± (0,5 % rdg + 1°C)
	1000°C - 1300°C	± (0,8 % rdg + 1°C)
	-58°F - 32°F	± 4°F
	32°F - 2000°F	± (0,5 % rdg + 2°F)
	223K - 273K	± 5K
	273K - 2000K	± (1,0 % rdg + 2 K)

Accuracy is specified for temperatures within the range of 18°C to 28°C (64°F to 82°F).

Temperature coefficient	0,1 times the applicable accuracy specification per °C from 0°C to 18°C and 28°C to 50°C (32°F to 64°C and 82°C to 122°C).	
Input protection	60V DC or 24V AC	
Reading rate	2,5 times per second	
Input connector	Standard miniature thermocouple connectors (flat blades spaced 7,9 mm centre to centre)	
Display	3 1/2 digits LCD with maximum reading of "1999"	
Battery	Standard 9V battery	
Dimensions	162 x 76 x 39 mm	
Weight	210 gr.	
Supplied probe	4 foot type „K“ thermocouple bead probe Length 1000 mm (teflon tape insulated) Insulation temperature max. 260°C/500°F	
Accuracy probe	±2,2°C or ±0,75 % or reading (whichever is greater) from 0° -800°C	
Working temperature	0°C - 50°C (32°F - 122°F)	
Storage temperature	-20°C - 60°C (-4°F - 140°F)	
Relative humidity	0 % - 80 % at 0°C - 35°C / 32°F - 95°F	

OPERATION

Selecting the temperature scale

- Readings are displayed in either degrees Celsius (°C), Fahrenheit (°F) or Kelvin (K). When the thermometer is turned on, it is set to the scale that was in use when the thermometer was last turned off. To change the temperature scale, press the keys °C (10), °F, (11) or K (12).
- Selecting the display resolution
The thermometer allows two choices of resolution. For this press button (6) or (8):
High resolution: 0,1°C or 0,1°F
Low resolution: 1°C or 1°F
For measurements in Kelvin the resolution cannot be changed.

Overload display (1)

- The digital display will indicate “1” if the input exceeds the measurement range selected.
- If measuring above 199.9°, change the resolution to 1°. Be certain to seat the thermocouple connector properly and that the leads are not broken.

HOLD mode

- Press HOLD key to enter the data hold mode. The HOLD icon is displayed. When HOLD mode is selected, the thermometer freezes current readings and stops all further measurements.
- Press HOLD key again to leave HOLD mode and to re-start taking measurements.

MAX mode

- Press the MAX key to enter the MAX mode. The thermometer then records and updates the maximum values and the MAX icon appears on the display.
- Press the MAX key again to exit the MAX recording mode. In the MAX mode, press HOLD key to stop recording, press HOLD again to resume recording.

Backlight mode

- Press the backlight key to turn on the LCD backlighting function. The LCD backlighting will auto-off after the backlight key is released approximately 5 seconds.


Tc (temperature compensator) checking mode

- Press and hold the "Tc" key to enter the temperature compensator checking mode. The thermometer will display inside temperature.

CARE AND CLEANING

Change of battery



- If symbol  is displayed the 9V battery must be replaced.
- Turn the meter off and disconnect the temperature probe.
- Remove the rubber holster that surrounds the entire meter by pulling it over the top of the meter.
- Remove the small head screw on the rear of the meter.
- Open the battery compartment and replace the 9V battery.
- Re-assemble the meter before operating.

SAFETY INSTRUCTIONS

- Please follow up instructions given in operators' manual.

- Carefully read users' manual before operation.
- Do not open instrument housing. Repairs should be carried out by authorized workshops only. Please contact your local dealer.
- Do not remove warning labels or safety instructions.
- Keep instrument away from children.
- Do not use instrument in explosive environment.
- To avoid electrical shock do not use this instrument when voltages at the surface to be measured exceed 30V DC or 30 rms AC.
- Repeated sharp flexing can break the thermocouple leads. To prolong lead life, avoid sharp bend in the leads, especially near the connector.



The symbol on the instrument indicates that the operator must refer to an explanation in this manual.

WARRANTY

- This product is warranted by the manufacturer to the original purchaser to be free from defects in material and workmanship under normal use for a period of two (2) years from the date of purchase.
- During the warranty period, and upon proof of purchase, the product will be repaired or replaced (with the same or similar model at manufacturers option), without charge for either parts or labour.
- In case of a defect please contact the dealer where you originally purchased this product.

- The warranty will not apply to this product if it has been misused, abused or altered.
- Without limiting the foregoing, leakage of the battery, bending or dropping, the unit are presumed to be defects resulting from misuse or abuse.

EXCEPTIONS FROM RESPONSIBILITY

- The user of this product is expected to follow the instructions given in operators' manual. Although all instruments left our warehouse in perfect condition and adjustment, the user is expected to carry out periodic checks of the product's accuracy and general performance.
- The manufacturer, or its representatives, assumes no responsibility of results of a faulty or intentional usage or misuse including any direct, indirect, consequential damage, and loss of profits.
- The manufacturer, or its representatives, assumes no responsibility for consequential damage, and loss of profits by any disaster (earthquake, storm, flood etc.), fire, accident, or an act of a third party and/or a usage in other than usual conditions.
- The manufacturer, or its representatives, assumes no responsibility for any damage, and loss of profits due to a change of data, loss of data and interruption of business etc., caused by using the product or an unusable product.
- The manufacturer, or its representatives, assumes no responsibility for any damage, and loss of profits caused by usage other than explained in the users' manual.
- The manufacturer, or its representatives, assumes no responsibility for damage caused by wrong movement or action due to connecting with other products.