

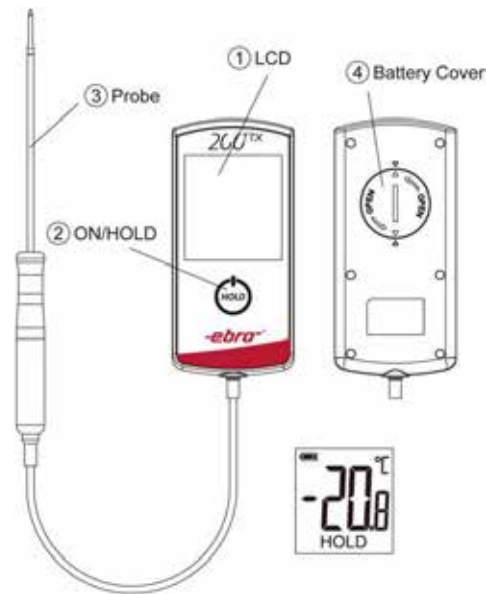
TTX 200 Type T Core Thermometer Operating Instructions

Congratulations on the purchase of the product. We hope that you can make use of this product for a long time and it helps you with your work. Powered by a replaceable lithium battery, the thermometer is a handy, temperature measurement device for a whole range of measurement and control applications.

- ① LCD
- ② ON/HOLD
- ③ Thermocouple Probe
- ④ Battery Cover

OPERATION

1. Power on
To switch the thermometer on, keep ON/HOLD (②) pressed for approximately one second.
2. Display LCD
All necessary information is displayed on the LCD. The individual symbols have the following meanings:
 - 2.1 Display for current measured values
 - 2.2 Minus sign (negative measured values)
 - 2.3 Battery status indicator
 - 2.4 "HOLD" -- Auto shut down after 10 minutes
 - 2.5 Temperature unit
3. Select the required unit of measurement °C or °F:
Switch on the device by pressing ON/HOLD (②). As soon «Ebro» is shown, press ON/HOLD (②) again for 3 seconds and release. The settings menu is active and the current unit is shown. Press ON/HOLD (②) once, the display will switch to next unit. Press ON/HOLD (②) for more than 2 sec, the current unit will be stored, and then the settings menu will be left.
4. Measuring temperature
 - 4.1 As soon as switch on the device, start to take a temperature reading every second.
 - 4.2 Press ON/HOLD (②) once, the device stops measuring and the last reading is shown on the LCD. "HOLD" is shown on the LCD.
 - 4.3 Press ON/HOLD (②) again, the device starts measuring again.



* IP65 Splash Proof

⚠ CAUTION

The thermometer should be protected from the following:

1. Electro Static Discharge
2. "Thermal shock" caused by large or abrupt ambient temperature changes.
 - allow 30 minutes for unit to stabilize before use when exposed to "thermal shock".
3. Do not leave the unit on or near objects of high temperature.
4. Keep out of reach of all children.

STORAGE & CLEANING

Clean the device with a damp cloth. Do not use any solvents such as Acetone as they corrode the plastic. Isopropyl alcohol may be used to disinfect. Do not submerge any part of the thermometer. The thermometer should be stored at room temperature between -20 to +65°C (-4~149°F).

LCD ERROR MESSAGES

The thermometer incorporates visual diagnostic messages as follows:

「Er2」

'Er2' is displayed when the thermometer is exposed to rapid changes in the ambient temperature. The thermometer should be allowed plenty of time (minimum 30 minutes) to stabilize to the working/room temperature.

「Er3」

'Er3' is displayed when the ambient temperature exceeds -200C(-4°F) or +600C(140°F).

「Er」

Error 5~9, for all other error messages it is necessary to reset the thermometer. To reset it, turn the instrument off, remove the battery and wait for a minimum of one minute, reinsert the battery and turn on. If the error message remains please contact the Service Department for further assistance.

「Hi」Lo」

'Hi' or 'Lo' is displayed when the temperature being measured is outside of the measurement range.

BATTERY

The thermometer incorporates visual low battery indication as follows:



'Battery OK': measurements are possible



'Battery Low': battery needs to be replaced, measurements are still possible



'Battery Exhausted': measurements are not possible

BATTERY REPLACEMENT

When the 'Low Battery' icon indicates the battery is low, the battery should be replaced immediately with a CR2450 lithium cell. The battery is located under the twist cover at the rear of the thermometer. Please note: It is important to turn the instrument off before replacing the battery otherwise the thermometer may malfunction.

⚠ Dispose of used battery properly and keep away from children.

SPECIFICATION

| | |
|-------------------|--|
| Measurement Range | -30~199.9°C (-22~391.8°F) |
| Operating Range | -20~60°C (-4~140°F) |
| Accuracy | ± 0.5°C(0.9°F) at -30~100°C (-22~212°F), 1% of reading at 100.1~199.9°C (212.1~391.8°F) |
| Resolution | 0.1°C/0.1°F |
| Battery Life | >500h at room temp. and >250h at -20°C with measurement active. |
| Dimensions | 127 x 60 x 16 mm (5x2.36x0.63 inch) |
| Needle | 120mm length, 2mm diameter of tip, 3mm diameter of shaft |
| Weight | 120.7 grams(4.26 oz) including a CR2450 lithium cell |

⚠ **Caution: Please make sure the target to be measured will not exceed the temperature range of the probe to avoid permanent damage of the thermocouple probe.**

⚠ **Caution: To avoid electric shock and thermometer damage, do not measure live circuit where voltage exceeding 24V AC RMS or 60V DC with the thermocouple probe.**

⚠ **EMC/RFI: Readings may be affected if the unit is operated within radio frequency electromagnetic field strength of approximately 3 volts per meter, but the performance of the instrument will not be permanently affected.**



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