

User's Manual

TX1001 Digital Thermometer [ Operation Manual ]

Store this manual in an easily accessible place for quick reference.

Printed in Japan

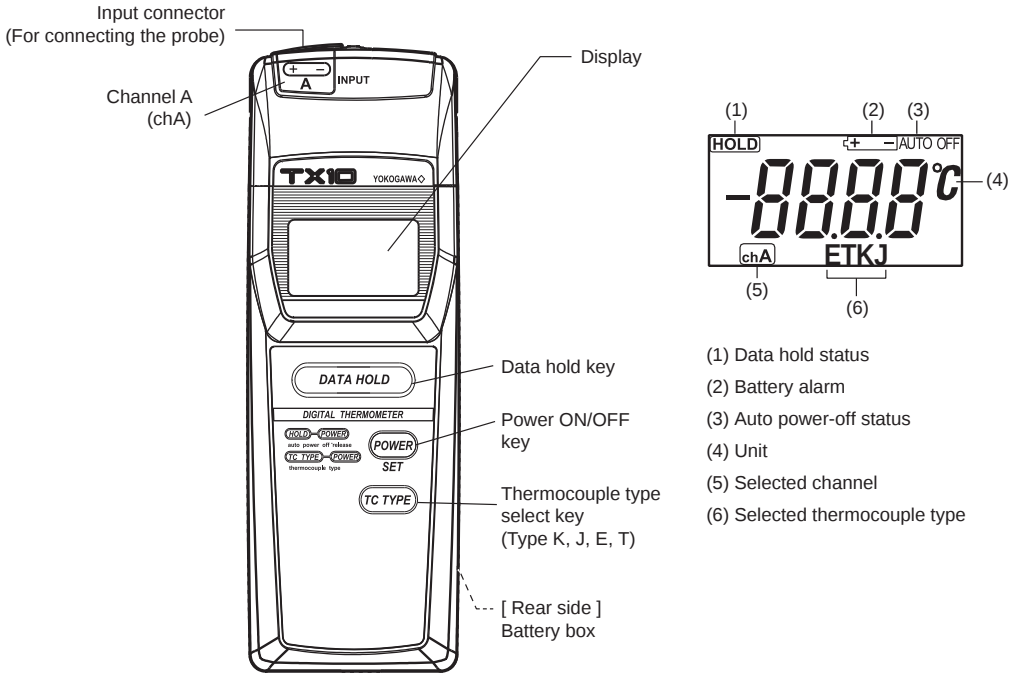
YOKOGAWA Yokogawa Test & Measurement Corporation

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IM TX10-01-02EN 3rd Edition: Oct. 2017 (YMI)

7. Components and Functional Description

7.1 Components



7.2 Functional Description

To turn the power on and off

| Key                              | Operation and description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Display                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Power on<br><b>POWER</b><br>SET  | <ul style="list-style-type: none"><li>Press the POWER key to turn on the power.</li><li>The auto power-off function turns off the power automatically about 10 minutes after the last key operation of any key other than the <b>POWER</b>/SET key.</li><li>To disable the auto power-off function, turn off the power first if the power is already turned on. Then simultaneously press the <b>POWER</b>/SET and <b>DATA HOLD</b> key. This will keep the instrument turned on continuously. (If the instrument is used with the auto power-off function disabled, pay attention to the battery consumption.)</li></ul> | After the power has been turned on, all the elements of the display light up.<br><br>AUTO OFF |
| Power off<br><b>POWER</b><br>SET | <ul style="list-style-type: none"><li>To turn off the power, press this key for 1 second or longer.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                               |

To select the thermocouple type

|                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |
|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <b>TC TYPE</b><br>+<br><b>POWER</b><br>SET<br>↓<br><b>TC TYPE</b><br>↓<br><b>POWER</b><br>SET | <p><b>To select a thermocouple type from K, J, E, and T:</b><br/>If the power is already turned on, turn it off.</p> <ul style="list-style-type: none"><li>Press and hold down the <b>TC TYPE</b> key while pressing the <b>POWER</b>/SET key to turn on the power. The thermocouple type and unit on the display flash, indicating that the instrument is ready for changing thermocouple type.</li><li>Every time the TC TYPE key is pressed the thermocouple type.</li><li>Press the POWER/SET key to accept the setting.</li></ul> <p><b>TIP</b><br/>The factory-set default is type K.</p> | K, J, E, T |
|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|

To hold data

|                                  |                                                                                                                                                 |             |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Hold<br><b>DATA HOLD</b>         | <p><b>Use this key to hold the measured value on LCD.</b></p> <ul style="list-style-type: none"><li>To hold, press the DATA HOLD key.</li></ul> | <b>HOLD</b> |
| Release hold<br><b>DATA HOLD</b> | <ul style="list-style-type: none"><li>To cancel holding, press the DATA HOLD key again.</li></ul>                                               |             |

Burnout indication

|                           |                                                                                                                   |  |
|---------------------------|-------------------------------------------------------------------------------------------------------------------|--|
| <b>Burnout</b><br>- - - - | <p>When the probe is not connected to the input connector (or the sensor opens), a burnout mark is displayed.</p> |  |
|---------------------------|-------------------------------------------------------------------------------------------------------------------|--|

This manual describes the specifications and handling precautions of the digital thermometer. Before using this product, thoroughly read this manual to understand how to use it properly.

IM TX10-01E Safety Precautions, Specifications etc.  
IM TX10-01-02EN: Operation Manual (This manual)

Contact information of Yokogawa offices worldwide is provided on the following sheet.  
PIM 113-01Z2 Inquiries List of worldwide contacts

8. Measurement

This instrument can connect any of the 4 types of thermocouples: Type K, J, E, or T (it is set to Type K at shipment from the factory). Use an omega-type connector corresponding to the TC type for the probe.

[ Procedure ]

- Load the batteries (see section "9. Battery Replacement").
- Press the **POWER**/SET key to turn on the power. When the power has been turned on, all indications on the display light up for about 2 seconds, then the measured value appears.

When the probe is not connected to the input connector, a burnout mark is displayed.  
Burnout indication: - - - - °C
- Check the thermocouple type. If you wish to change the current setting, see "To select a thermocouple type" of section "7.2 Functional Description."
- Connect the probe to the input connector. (The measured value appears.)
- When you have finished measurement, turn off the power by pressing the **POWER**/SET key. The power may be turned off by the auto power-off function during measurement. In this case, press the key to the POWER/SET key to restart the instrument and continue measurement.

9. Battery Replacement

CAUTION

- When inserting batteries, be careful not to mistake the polarity as this can damage the instrument.
- When the instrument is to be stored for a long period of time, remove the batteries.
- Do not leave dead batteries in the instrument as doing so may result in a failure or malfunction of the instrument due to a leakage in battery liquid.
- Both batteries should be replaced with new ones at the same time as replacing only one of the batteries may result in the charge leaking from the new battery to the old.

Attention

- Lors de l'insertion des piles, faire en sorte de ne pas confondre de polarité, car cela risquerait d'endommager l'instrument.
- Si l'instrument doit être stocké pendant une longue période, retirer les piles.
- Ne pas laisser de vieilles piles usagées dans l'instrument, car cela risquerait sinon d'entraîner une défaillance ou un dysfonctionnement de l'instrument dû(e) à une fuite du liquide des piles.
- Les deux piles doivent être remplacées par des nouvelles en même moment, car le fait de n'en remplacer qu'une seule risque d'entraîner un transfert de charge de la nouvelle pile vers l'ancienne.

When the batteries approach the end of their lives, the **+** **-** mark appears on the display. If this mark is displayed, replace the batteries.

To replace the batteries:

- Remove the battery box cover from the back (rear) of the instrument. Then replace the two AA alkaline dry batteries (LR6).
- Refit the cover to the battery box.