Instruction Manual

Wall-Mount Type Waterproof Digital Thermometer
Model SK-100WP

SATO KEIRYOKI MFG.CO.,LTD.

Thank you for purchasing the SK-100WP Wall-Mount Waterproof Digital Thermometer.
- This product is designed to measure temperature. Do not use it for other purposes.
- Read this manual thoroughly before using the SK-100WP. Keep the manual in a safe
  place for future reference whenever necessary.

 Warning

The SK-100WP is not explosion-proof. Never use it in an atmosphere containing flammable
gases.

 Beware of explosion!

There is a risk of explosion. Take extreme care.

1. Notes on Use

Be sure to observe the following precautions in order to use this unit correctly.

- Do not connect the probe if the sensor connector gets wet since the sensor connector itself
  is not waterproof structure.
- Do not drop this unit or apply impact to it. This unit is a precision instrument.
- Never disassemble or modify this unit. Doing so may result in failure.
- Do not use this unit in water.
- Do not use this unit in a place exposed to direct sunlight or near heating equipment.
  Doing so may result in deformation of the casing or failure.
- Do not use this unit in an environment where electrical noise is generated. Doing so may
  result in unstable display or larger errors.
- If this unit is not to be used for a long time, always remove the batteries from the unit.
  Otherwise, the batteries may leak fluid, resulting in failure.
- Do not wash or wipe this unit with alcohol, thinner, or other solvents. Also, do not wash it
  in water. If the unit becomes dirty, wipe it with a tightly wrung cloth that has been
  dipped in warm water with neutral detergent.
- Be sure to use this unit within the specified measurement range. Using the unit outside
  the specified measurement range will result in failure or damage.
- When measuring high temperature, be careful not to get burnt.
- Keep the batteries out of the reach of children. If a battery is swallowed accidentally,
  consult a medical attention immediately.

** For repair or calibration, contact us or the dealer from which the unit was purchased.
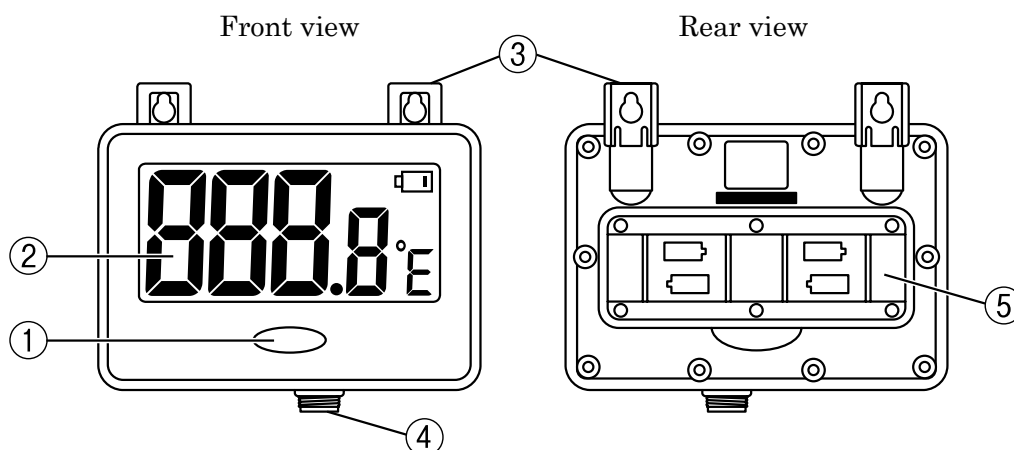
2. Overview

The SK-100WP is a washable type wall-mount digital thermometer having a large LCD display.　This model is applicable in kitchen.

3. Features

- Both the main unit and the probe are washable type that conforms to "Protection level 7 in JIS C 0920" that is equivalent to IP X7.　It means that these will not be affected in function even if the unit is immerged in water (depth: 1m) for 30 minutes under normal temperature.　However, this instrument cannot be used in water.
- A large LCD display for easy reading
- Simple operation: function is Power ON/OFF only

4. Names of Section

4-1 Main housing

Front view　　　　　　　　　　Rear view

① POWER ON/OFF key: Press this key to turn the main unit on.

　　　　　　　　　　　　Press the key again to turn it off.

② Display section　　　: displays measured value and a symbol

③ Hooks　　　　　　　: use for mount the main unit

④ Sensor connector　　: connects the probe

⑤ Battery cover/battery compartment

<u>4-2 Display section</u>

① 7-segment LCD   : displays the measured value
② Low battery mark   : will blink when battery power is insufficient.

5. How to Use

5-1. Loading Batteries
　When the low battery mark blinks, replace the batteries with new ones with the following procedure.

(1) Rotate the screw on the battery lid on the back of the main unit counterclockwise using a Philippe screwdriver until it comes free and then remove the battery lid.

(2) Load four AAA batteries so that each positive or negative terminal faces the correct direction.

(3) Reinstall the battery lid and secure with the screw in the reverse order of the removal procedure. If you have a torque driver, firmly secure with about 0.40 (N.m). Otherwise, Waterproofness will not be guaranteed.
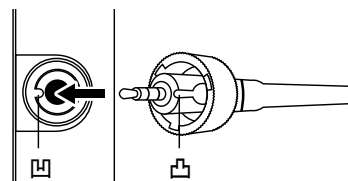
<div align="center">⚠　Warning</div>
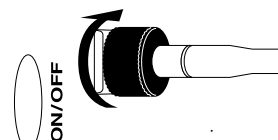
*　When the low battery mark blinks, replace the batteries with new ones.　Otherwise, measured value may display incorrectly.
*　Replace all four batteries with new batteries of the same type.
*　Do not dispose the used battery into a fire.
*　Dispose the used battery according to your local rules and regulations.

5-2. Connecting the Sensor Probe

1. Mach concavity （凸） of the plug of probe and convexity(凹) of the socket of unit together and insert the plug into the socket.

2. Turn the nut clockwise to fasten tightly.

3. To remove the probe, turn the nut counterclockwise to loosen and pull the probe straight toward you.

5-3. Installation

Pull out two hooks for mount that are on back. Install the main unit on the wall with two hooks.   Be sure to secure them so that the unit will not fall down.

6. How to measure temperature

(1) After pressing the ON/OFF key to turn the power on, all characters are displayed for 3 sec. Then the current temperature will be displayed and it enters the measurement mode.
(2) Insert the sensor stem into the object to be measured and read the temperature value after the indication becomes stable.
(3) Press the ON/OFF key again and the display will disappear and power will be off.

7.   Error Message

Display	Causes	Remedy
E02	Probe is not connected Measured value is lower than -10.0℃	Connect the probe. Bring the value within the measuring range.
E03	Connection of probe is insufficient Short circuit occurs Measured value is higher than 110.0℃	If the error message is still displayed stop using it and contact us or the dealer.
E31	Abnormality may occur inside the electronic circuit.	Stop using it and contact us or the dealer.

8. Specifications

Product   : No. 8050-00 Wall-Mount Waterproof Digital Thermometer
Model   : SK-100WP
Display range   : -12.0 to 112.0℃
Measuring range   : Depending on the probe connected
Measuring accuracy   : Depending on the probe connected
Resolution   : 0.1℃
Sampling time   : approx. 10 sec.
Waterproof Proper   : Conforming to JIS C0920 Protection Class 7
                             ---- Equivalent to **IP X7** rated ---
Operation ambient   : 0 to 50℃
Storage ambient   : -10 to 50℃
Power requirements   : "AAA" size battery x 4 pcs.
Battery life   : About 1 year continuous with alkali batteries in normal
                             temperature
Materials   : ABS resin
Dimensions   : 122(W) × 85(H)× 30(D)mm
Weight   : Approx. 205g (including batteries)
Standard accessories   : "AAA" size manganese battery x 4 pcs.