![A&D logo] A&D Company, Ltd.

AD-5629
Large LCD Probe Thermometer
Instruction Manual

About This Manual
(1) No part of this publication may be reproduced, transmitted, or translated into any language in any form by any means without the written permission of A&D Company, Limited.
(2) The contents of this manual and the specifications of the product are subject to change for improvement without notice.
(3) Please contact A&D if you notice any uncertainties, errors, omissions, etc. in this manual.
(4) A&D assumes no liability whatsoever for any losses due to the operation of this product regardless of (3) above.

©2025 A&D Company, Limited.
No part of this publication may be reproduced or modified in any form by any means without the permission of A&D Company, Limited.

1WMPD4005635A

1. Introduction

Thank you for purchasing the AD-5629 large LCD probe thermometer. This manual describes how the product works and how to get the most out of the product. Read this manual thoroughly before using the product and keep the manual at hand for future reference.
The latest version of this manual can be downloaded from the product information page on the A&D website.
A&D website: **https://www.aandd.jp**

2. Safety Precautions

To prevent accidents due to inappropriate handling, this manual contains the following warning signs and marks.

WARNING DEFINITIONS
The meanings of these warning signs and marks are as follows.

⚠CAUTION	This symbol indicates a potentially hazardous situation that, if not avoided, could result in personal injury or property damage.

Note the following when operating the product.

⚠CAUTION

Repair
Only qualified professionals should open the case and conduct repairs. Performing such repairs yourself may void the warranty, damage the product, or otherwise cause loss of functionality.

Product malfunction
If any abnormality is found with the product, stop using it immediately. Attach a notice to the product indicating that the product is "Out of Order" or move the product to a location where it will not be used accidentally. Continued use of the product is extremely dangerous. For repairs, please contact the store where you purchased the product or an A&D office.

3. Precautions for Use

• **After measuring a high temperature (50°C or higher) or low temperature (0°C or lower), do not touch the product until it has returned to room temperature. Doing so may cause a burn or frostbite.**
• **The sheath (metal part) of the probe can withstand temperatures up to +230°C, but the display (plastic part) can only withstand temperatures of 50°C. When measuring a high temperature, do not expose the display to a high temperature. Doing so may cause deformation or damage to the display.**
• **Hold the product by hand when measuring.**
• **The tip of the sheath is sharp and can pierce people or objects. When carrying or storing the product, place it in the sheath holder.**
• Avoid using the product in locations subject to sudden changes in temperature, high temperatures, high humidity, or high dust content.
• The product is waterproof, but do not install it in a location which is wet for extended periods of time or immersed in water.
• **If the battery is running low, the device or display may not operate properly. In this case, follow the procedure in "6. Replacing the Battery" to replace the battery.**

• **Avoid using the product in locations subject to a strong magnetic field or electric field (such as near a television, IH cooking utensil, or microwave), as doing so may adversely affect the product.**
• **To prevent danger, avoid using the product in a location where there is flammable gas.**

4. Product Features

The probe thermometer enables you to measure the internal temperature of foods, as well as liquids, semi-solids, and gases.
❑ The large LCD display enables the measured value to be read from far away.
❑ The product is waterproof as defined by protection class 7 of JIS C 0920, and can be washed with water.
❑ By setting an alarm, the product can notify the user when the measured value is outside the set range of temperatures.
❑ The product indicates when the battery is running low to allow the user to easily know when the battery needs replacement.
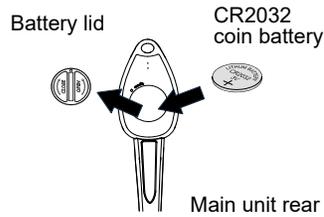
5. Contents of Package

When opening the package, confirm that the following items are included.
• AD-5629 main unit 1
Accessories
  Sheath holder 1
  Instruction manual 1
  Battery (for monitor) 1

6. Replacing the Battery

The battery is not inside the battery storage area when the product is purchased. Follow the procedure below to insert the battery before using the product.
*Batteries can be purchased at your local home improvement store or electronics store.

Replacing the Battery
(1) Use a coin to turn the battery lid on the back of the main unit counterclockwise and remove the lid.
(2) Remove the old battery, and insert a new CR2032 coin battery with the positive side facing up.
*When replacing the battery, inserting the battery straight down can cause damage to the metal inside the product. Carefully insert the battery at an angle instead.
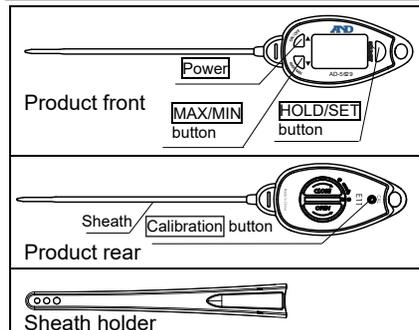
Battery lid   CR2032 coin battery

Main unit rear

(3) Return the battery lid to its original position. When doing so, confirm that there is a rubber ring in the battery lid area. Use a coin to turn the battery lid clockwise until the circle on the battery lid is aligned with that on the case.

Precautions for Using the Battery
• **The included battery is for monitor purposes and may have a short life.**
• **If you will not use the product for an extended period of time, remove the battery before storing the product.**
• **Inserting the battery upside-down may cause malfunction.**
• **Do not charge, short-circuit, disassemble, or dispose of the battery in fire, as doing so may cause it to rupture or leak fluid.**
• **Keep the battery out of reach of children. If the battery is swallowed, seek medical assistance immediately.**
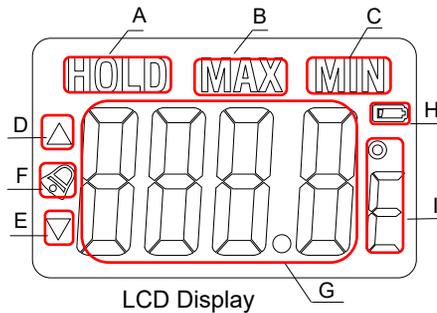• **To protect the environment, dispose of used batteries according to local regulations.**

7. Names of Parts

Power

Product front   MAX/MIN button   HOLD/SET button

Sheath   Calibration button
Product rear

Sheath holder

8. Functions and Displayed Items

Item	Description
HOLD function	Press the HOLD/SET button to hold the displayed screen.
Maximum/ minimum temperature display function	Press the MAX/MIN button to display the maximum and minimum temperatures since the battery was inserted.
Maximum/ minimum temperature memory delete function	Press and hold MAX/MIN with the maximum and minimum temperatures displayed to display "- - - -" and delete the memory.

Item	Description
Alarm function	Enables you to set an upper limit temperature and lower limit temperature for notifying the user with an alarm when the upper limit temperature or lower limit temperature is exceeded.
Clear alarm settings	On the upper limit/lower limit setting screen, press the Power button and MAX/MIN button at the same time to reset the value to "- - - -".
Calibration function	You can press and hold the Calibration button for 3 seconds, to adjust for 0°C. *Only available when the measured temperature is between -5.0°C and 5.0°C. *The 0°C adjustment is recommended after battery replacement, as the battery removal resets the product for the factory ship-out setting.
Auto power OFF	When no operations have been performed for approx. 10 minutes, the power automatically turns OFF.
Displayed errors	"HH.H" indicates that the measurement range upper limit was exceeded. "LL.L" indicates that the measurement range lower limit was exceeded.

A   B   C

HOLD   MAX   MIN

D   ▲   H
F   ✎   ⊙
E   ▼   I

          G
LCD Display

Displayed Icons

Symbol	Description
A	Lit when the displayed value is held
B	Lit when the maximum temperature is displayed with MAX/MIN button pressed for switching.
C	Lit when the minimum temperature is displayed with MAX/MIN button pressed for switching.
D	Lit when setting the upper limit value or when an alarm operates.
E	Lit when setting the lower limit value or when an alarm operates.
F	Lit when setting the alarm and during operation
G	Displays the measured value
H	Lit when the battery is running low
I	Displays the measurement unit (°C)

9. Measuring the Temperature

Press the Power button to turn the product ON. If the sheath holder is on the sheath, remove it. Follow the instructions below to measure the temperature.

For a liquid
Immerse the sensor to the depth to measure. Optionally, pass the sheath through the hole in the sheath holder, as indicated in the figure on the right.
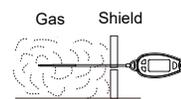
For a semi-solid
Insert the sensor to the depth to measure. If the material to measure is hard, forcefully thrusting the sensor into it may damage the sheath. Prepare the material in advance to ensure that the sensor can enter the inside.

For a gas
Place the sensor in the gas to measure, and wait until the displayed temperature stabilizes. When measuring a high temperature gas such as steam, use a shield to protect the display from the high temperature.

Gas   Shield

*1 The temperature is detected by the tip of the sheath.
*2 To avoid damage to the product, do not expose the parts other than the sheath to a high temperature or low temperature.
*3 If steam is present, make sure that the steam does not get on the display. Otherwise, the steam may damage the display.

10. Setting the Alarms

The product enables you to set an upper limit temperature and lower limit temperature. When the set limit temperature is exceeded, the alarm notifies you with the display flashing and with a buzzer sound.
(1) Press the Power button to turn the product ON.
(2) Press and hold the HOLD/SET button for at least two seconds.
(3) The screen for setting the upper limit temperature is displayed.
    Press ▲ or ▼ to display the desired numeric value, then press the HOLD/SET button.
*When changing the numeric value, you can press and hold the button to change the value more quickly.
*You can press ▲ and ▼ at the same time to reset the setting.
*Available range for setting the upper limit: -19.9 to 230.0°C
*The upper limit temperature cannot be set to a value lower than the lower limit temperature.
(4) The screen for setting the lower limit temperature is displayed.
    Press ▲ or ▼ to display the desired numeric value. Then press the HOLD/SET button.
*Available range for setting the lower limit: -20.0 to 229.9°C
*The lower limit temperature cannot be set to a value higher than the upper limit temperature.
(5) The ON/OFF setting for the alarm sound is displayed.
    Press ▲ or ▼ to switch the alarm sound ON/OFF, then press the HOLD/SET button.
(6) The measurement screen is displayed, and an alarm occurs when the set upper limit or lower limit temperature is exceeded.
*In the following two cases, the temperature setting cannot be completed:
(i) Upper limit temperature: no setting / Lower limit temperature: 70°C or higher
    -> Setting for the upper limit, resets the lower limit temperature.
(ii) Upper limit temperature: -10°C or lower / Lower limit temperature: no setting
    -> Setting for the lower limit, resets the upper limit setting.
*When the alarm sound is set to OFF, the ▲ or ▼ icon and the measured value flash.
*If no operations are performed on a setting screen for approx. 10 seconds, the product returns to the regular display.

11. Product Maintenance

If the sensor is dirty, temperatures cannot be measured accurately. If the main unit becomes dirty, wash it gently with water, without scrubbing. If it is very dirty, gently wipe it with a sponge or similar material moistened with a neutral detergent. Do not use thinner, benzene-like volatile solvents, or abrasives.

12. Specifications

Item	Description
Measurement range	-20.0°C to 230.0°C
Measurement accuracy	±1.0°C (10.0°C to 100.0°C), ±1.5°C (100.1°C to 200.0°C) ±2.0°C (-20.0°C to 9.9°C, 200.1°C to 230.0°C)
Resolution	0.1°C
Sampling	Approx. 1 time each second
Auto power OFF	Approx. 10 min.
Operating environment	0°C to 50°C, 10 to 90% RH (without condensation)
Storage environment	-10°C to 55°C, 0 to 90% RH (without condensation)
Alarm volume	Approx. 60 dB/10 cm
Power	CR2032 × 1
Battery life	Approx. 1 year (In case of 3 hours of use per day)
External dimensions	39 (W) × 16 (D) × 204 (H) mm
Main unit weight	Approx. 36 g (including battery and sheath holder)
Accessories	Instruction manual, battery, sheath holder
Materials	Main unit: ABS; Buttons: Rubber; LCD panel: Acrylic
Optional accessories	Battery lid (AXP-AD5629-1) Sheath holder (AXP-AD5629-2)