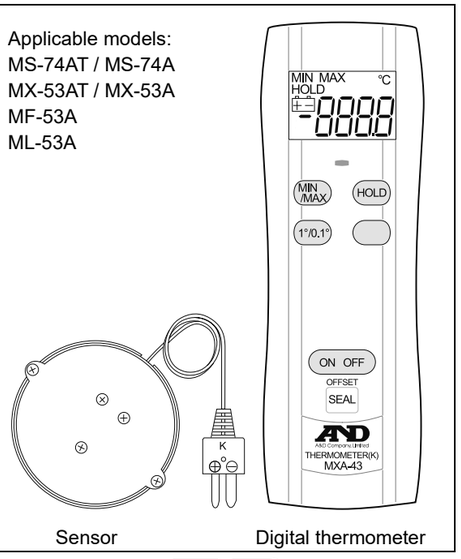
MXA-43

Temperature Adjustment kit

Instruction Manual

Applicable models:
MS-74AT / MS-74A
MX-53AT / MX-53A
MF-53A
ML-53A



Sensor Digital thermometer

A&D Company, Limited

1WMPD4005610

About This Manual

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- The contents of this manual and the specifications of the instrument covered by this manual are subject to change for improvement without notice.

1. Safety Information

We recommend that you read the safety and operation instructions before using the thermometer.

Repair:

Do not disassemble the digital thermometer or sensor to avoid damage and fire.

Troubleshooting:

Contact your local A&D dealer to repair the instrument.

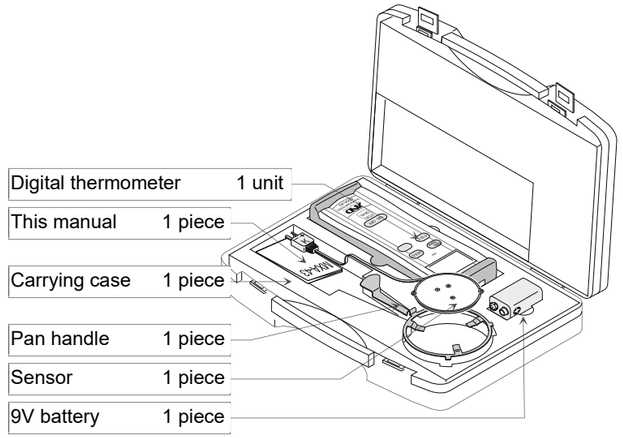
⚠Warning	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
Note	Describes "when it is easy to mishandle" and "general advice when using this product".

2. Introduction

The temperature adjustment kit (MXA-43) consists of a digital thermometer and a sensor with a K-type thermocouple in the center of the pan. The temperature adjustment kit displays the temperature data used in the adjustment of the drying temperature for the left moisture analyzer made by A&D Co.,ltd.

Before use, install the battery while referring to "7. Battery Replacement".

3. Unpacking



Digital thermometer	1 unit
This manual	1 piece
Carrying case	1 piece
Pan handle	1 piece
Sensor	1 piece
9V battery	1 piece

4. Specifications

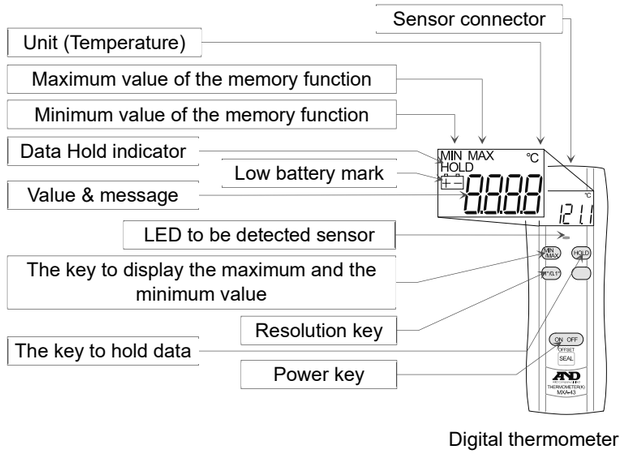
4.1. Digital thermometer

Display : ..... 3 1/2 digit LCD with maximum reading of 1999
Battery : ..... 9 V battery (IEC 6F22), 1 piece
Battery Life : ..... About 200 hours with alkaline battery
Resolution : ..... 0.1°C or 1°C
Operation temperature: ..... 0°C to 50°C
Operation relative humidity : ..... 0% to 80%RH, 0°C to 35°C
0% to 70%RH, 35°C to 50°C
Storage temperature : ..... −20°C to 60°C
Storage relative humidity : ..... 0% to 80%RH
Digital thermometer dimensions : ..... 62(W) 184(H) 35(D) mm
(Excluding the rubber case)
Digital thermometer mass : ..... Approximately 165 g
(Excluding the battery and rubber case)

4.2. Sensor

Sensor type : ..... K type thermocouple temperature sensor
Measurement temperature range: ..... 0°C to 200°C
Dimensions : ..... Dia. 95 (Max. width 100) 8 (D) mm
Mass : ..... Approximately 45 g
Cable length : ..... Approximately 1 m

5. Names



Digital thermometer

6. Operation and Functions

Note

- **When the measurement value is out of range or the sensor is not connected, [OL] is displayed.**
- **The OFFSET trimmer is sealed because it is adjusted at the factory.**

6.1. Specifying the Resolution

Preset the resolution of the digital thermometer to "1°C" so that the temperature on the weighing pan can be adjusted.

- The resolution can be selected with the [1°C/0.1°C] key.

6.2. The Hold Function

Cancel the hold function of the digital thermometer for adjustment.

- The hold function displays a fixed value and "HOLD" indicator and stops the current measurement.
- Each time the [HOLD] key is pressed, the thermometer switches between the fixed value of the hold function and the current measurement value.

6.3. Max. /Min. Value of The Memory Function

Cancel the memory function for adjustment.

- Each time the [MIN/MAX] key is pressed, the thermometer switches between the maximum and minimum values.
- While using the memory function, the updated (memorized) maximum or minimum value is displayed.
- When pressing and holding the [MIN/MAX] key, the thermometer clears (deletes) the stored maximum and minimum values and displays the current measurement value.

6.4. The Detection Function for The Thermocouple Temperature Sensor

When the wire of the thermocouple temperature sensor is broken and the sensor is connected to the digital thermometer incorrectly, the LED will be lit.

6.5. Temperature Adjustment

For information on adjusting the temperature of the moisture analyzer's pan, please refer to the moisture analyzer's instruction manual available on our website (https://www.aandd.jp).

Please see the moisture analyzer's instruction manual here.

7. Battery Replacement

⚠Warning

- **Remove the sensor from the thermometer before removing the cover to avoid electrical shock.**
- **Do not charge it. Do not short terminals. Do not disassemble it. Do not burn or through it into fire.**
- **Dispose of used batteries according to local regulations.**
- **When [battery] (Low battery mark) appears, replace the battery with a new one.**
- **When the batteries are drained completely, [battery] (Low battery mark) does not appear.**
- **The battery life is dependant upon the environmental temperature, battery type and usage.**
- **Remove the battery if the device is not to be used for a long time.**
  The battery may leak and cause a malfunction.
- **The included battery is for test operation purposes and may have a usage short life.**
- **Connect the positive (+) and negative (−)terminals of the battery to the battery snap properly.**
- **Do not pull the battery snap.**

7.1. Battery Replacement Procedure

1. Remove the connector of the sensor.
   Remove the rubber cover.
2. Remove the two screws from the thermometer.
   Remove the battery cover.
3. Remove the old battery from the battery snap.
4. Connect the new battery to the battery snap.
   Insert the battery into the thermometer.
5. Fix the battery cover with the two screws.