

## MX-43 Instruction Manual Temperature Calibrator for Moisture Analyzer MX-50

### 1. Safety Information

It recommends that you read the safety and operation instructions before using the thermometer.

Repair: Do not disassemble the instrument to avoid damage and fire.

Troubleshooting: Contact the local A&D dealer to repair the instrument.

#### Description

**Caution** A potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

#### Caution for Battery Handling

- Do not charge it. Do not short terminals. Do not disassemble it. Do not burn or through it into fire.
- Dispose it according to the regulations.

-1-

WM:PD4000521

### 2. Introduction

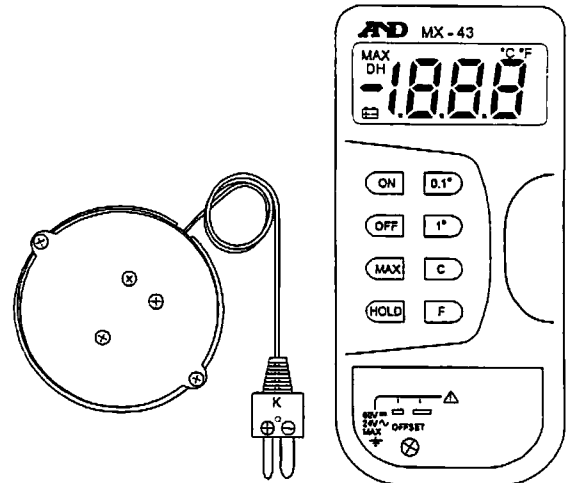
The temperature calibrator consists of a digital thermometer and a sensor pan with a K-type thermocouple in the center. The instrument displays the temperature data used at the calibration of the drying temperature.

Install the battery before use.  
Refer to "5. Battery Replacement".

Refer to the "Calibration of Drying Temperature for MX-50" for the temperature calibration method.

#### Caution

- Do not input a voltage that exceeds 24VAC or 60VDC, to avoid getting an electric shock.



Sensor pan

Digital thermometer

-2-

### 3. Specifications

#### General(Thermometer)

Display:	3 1/2 digit LCD with maximum reading of 1999	
Battery:	9V battery (NEDA 1604, IEC 6F22)	
Battery Life:	200 hours typ. with carbon zinc battery	
Ambient operation:	0°C ~ 50°C	(32°F ~ 122°F)
Ambient relative humidity:	0% ~ 80%RH, 0°C ~ 35°C	(32°F ~ 95°F)
	0% ~ 70%RH, 35°C ~ 50°C	(95°F ~ 122°F)
Storage temperature:	-20°C ~ 60°C	(-4°F ~ 140°F)
Storage relative humidity:	0% ~ 80%RH	
Dimensions:	147(H)×70(W)×39(D) mm	
Mass:	Approximately 210g	(7.4oz.)

### 4. Operation and Functions

#### 4.1. Select a Unit

Press the **[°C]** key to use the unit of Celsius in the temperature calibration of the moisture analyzer.

- The last unit is stored in the thermometer.
- Pressing the **[°F]** key, a Fahrenheit value is displayed.

#### Note

- When the measurement value is out of range or the sensor is not connected, "OL" is displayed.
- The OFFSET volume is sealed because it is calibrated.

#### 4.2. Selecting the Display Resolution

Press the **[1°]** key to change the resolution in the temperature calibration of the moisture analyzer.

- Pressing the **[1°]** or **[0.1°]** key, the display resolution can be selected. Resolution: 0.1°C (0.1°F) or 1°C (1°F)

-3-

#### 4.3. Hold Mode

**Do not use the hold function in the temperature calibration of the moisture analyzer.**

- Press the **[HOLD]** key to hold the data. Then the "D-H" indicator is displayed and the present reading value is displayed and stops all further measurements.
- Press the **[HOLD]** key again to cancel the hold function. Then the thermometer resumes measurement.

#### 4.4. MAX mode

**Do not use the MAX function in the temperature calibration of the moisture analyzer.**

- Pressing the **[MAX]** key, the maximum value is updated and is displayed always. Pressing the **[MAX]** key again, the MAX function is canceled.
- Pressing the **[HOLD]** key while the maximum value is displayed, the value is not updated. Pressing the **[HOLD]** key again, the value is updated.

### 5. Battery Replacement

**Caution** Remove the sensor from the thermometer before battery replacement, to avoid affecting the circuit.

#### Procedure of Battery Replacement

When the battery needs replacement, **[BATT]** is displayed. Remove the three screws at the bottom case. Remove the bottom case and replace the battery with a new one. Close the bottom case and replace the three screws.

- 4 -