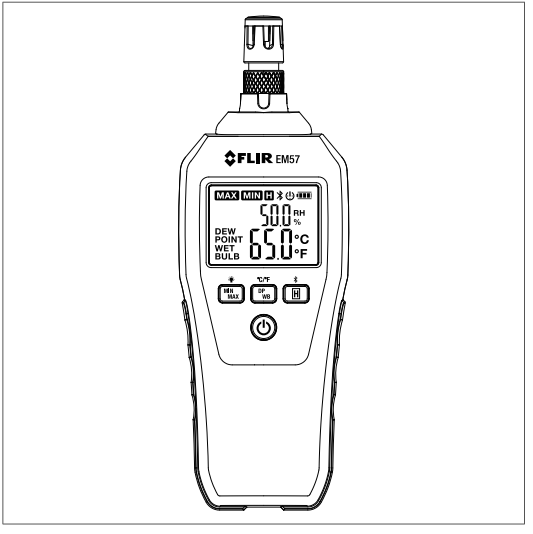
USER MANUAL

Thermo-Hygrometer with Meterlink® EM57



Introduction

Thank you for selecting the FLIR EM57 Hygrometer. The EM57 measures temperature and humidity and calculates Dew Point and Wet Bulb temperature.

Features include:

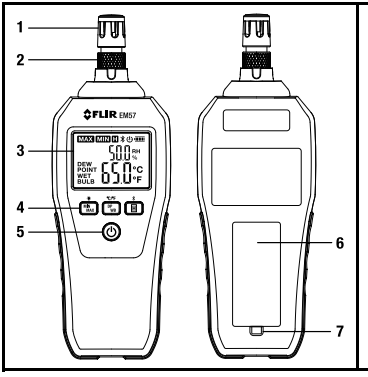
- Backlit LCD
- Display Hold
- Replaceable temperature/humidity sensor
- Selectable temperature units
- MAX-MIN memory
- Battery operated

The EM57 is equipped with Bluetooth and can communicate with mobile devices using the Meterlink mobile application.

This meter is shipped fully tested and calibrated and, with proper use, will provide years of reliable service.

Description

Meter Description

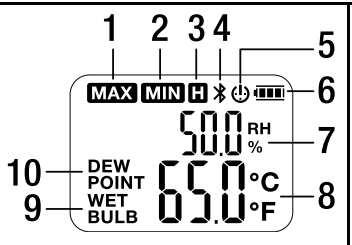


1. Sensor
2. Sensor locking collar
3. Display
4. Control buttons
5. Power button (long press)
6. Battery compartment
7. Battery compartment latch

Button Description

	Long press to switch ON or OFF Continue to hold the button to disable the auto power OFF (APO) function
	Short press > MAX > MIN > EXIT Long press to switch backlight ON or OFF
	Short press > Dew Point > Wet Bulb > normal mode Long press to toggle temperature units
	Short press to freeze or unfreeze reading Long press to enable or disable Bluetooth

Display Description



1. Maximum readings are displayed
2. Minimum readings are displayed
3. Display Hold is active
4. Bluetooth is active
5. APO is active
6. Battery status
7. Relative Humidity reading
8. Temperature reading
9. Wet Bulb temperature calculation is displayed
10. Dew Point temperature calculation is displayed

Operation

Meter Power

Long press to switch ON or OFF. Replace the battery if the meter will not switch ON or if the battery status icon indicates low battery voltage.

The APO feature switches the meter OFF automatically after 30 minutes of inactivity. To disable APO, hold the power button for an additional two seconds after switching the meter ON. The APO icon will switch OFF, when APO is disabled.

Display Backlight

Long press the backlight button to switch the backlight ON or OFF.

Temperature and Humidity Readings

The relative humidity (%) is shown on the upper display digits. The air temperature reading is shown on the lower display digits (°C/°F).

Dew Point and Wet Bulb

To step through the Dew Point and Wet Bulb temperature calculations, short press the DP-WB button. Dew Point and Wet Bulb temperature calculations are shown on the lower display digits.

Temperature Units

To toggle the temperature units, long press the °C/°F button.

MAX-MIN Memory

Short press the MAX-MIN button to step through the stored maximum readings (MAX), the stored minimum readings (MIN), and back to the normal operating mode. The MAX-MIN memories are reset when meter power is cycled.

Display Hold

Short press the hold button (H) to freeze the displayed reading, the **H** icon will appear. Press again to unfreeze the reading.

Bluetooth

Long press the Bluetooth button to enable it, the Bluetooth icon will appear. When enabled, mobile devices running the Meterlink mobile app can communicate with the meter, monitor meter readings, create reports, and more. Refer to the Meterlink app for complete instructions.

Maintenance

Battery Replacement

If the meter will not switch ON or if the low battery icon appears, replace the three (3) AAA batteries.

1. With the meter OFF, unlatch the battery compartment and remove its cover.
2. Replace the batteries, observing correct polarity.
3. Replace the compartment cover before use.



Never dispose of used batteries or rechargeable batteries in household waste. As consumers, users are legally required to take used batteries to appropriate collection sites, the retail store where the batteries were purchased, or wherever batteries are sold. **Disposal**: Do not dispose of this instrument in household waste. The user is obligated to take end-of-life devices to a designated collection point for the disposal of electrical and electronic equipment.

Cleaning and Storage

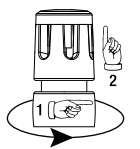
Always keep the meter dry, and prevent debris from accumulating on the sensor.

Wipe the housing with a damp cloth when necessary. Do not use abrasives or solvents. When storing the meter, remove the batteries and store separately.

Sensor Replacement

The replacement part number for the temperature and humidity sensor is MR13.

To remove the sensor, loosen the sensor locking collar (in the direction of the arrow printed on the collar), and pull the sensor upward (see image). Insert the new sensor and tighten the locking collar.



Specifications

General Specifications

Display	Backlit LCD
Meter power	3 x 1.5 V AAA batteries
Battery life	> 100 hours with backlight and Bluetooth OFF
Auto Power OFF (APO)	After 30 minutes of inactivity
Bluetooth	Frequency: 2402 ~ 2480 MHz Maximum output power (EIRP): –5 dBm
Operating conditions	-10 to 30°C (14 to 86°F); < 85% RH 30 to 40°C (86 to 104°F); < 75% RH 40 to 50°C (104 to 122°F); <45 % RH
Storage conditions	-20 to 60°C (-4 to 140°F); < 80% RH
Operating altitude	2000 m (6560 ft.)
Pollution degree	2
IP rating	IP40
Drop test	2 m (6.6 ft.)
Dimensions	198 x 68.2 x 32.5 mm (7.8 x 2.7 x 1.3 in.)
Weight	176 g (6.2 oz.) with batteries

Measurement Specifications

Relative humidity range	0.0 to 100% RH
Relative humidity resolution	0.1% RH
Relative humidity accuracy	± 2%
Temperature range	-20 to 60°C (-4 to 140°F) **OL** is displayed > 80°C (176°F)
Temperature resolution	0.1°
Temperature accuracy	± 0.5°C (0.9°F)

Wet Bulb calculation	-20 to 60°C (-4 to 140°F)
Dew Point calculation	-20 to 60°C (-4 to 140°F)

Regulatory Specifications

Certifications	CE, FCC
RF compliance	FCC Part 15c, EN 300328
Environmental	WEEE, RoHS, Reach, Prop 65, TSCA declaration

Customer Support

Customer Support Local Telephone List:

https://support.flir.com/contact

Returns (RMA):

https://customer.flir.com/Home

Warranty

This product is protected by FLIR's 3-Year Limited Warranty. Visit https://support.flir.com/prodreg to read the 3-Year Limited Warranty document.

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Website
http://www.flir.com

Customer support
http://support.flir.com

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Publ. No.: NAS100307
Release: AF
Commit: 114136
Head: 114155
Language: en-GB
Modified: 2026-08-27
Formatted: 2026-08-27

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