

Datasheet

LWR02

All-in-One Wireless Presence Sensor



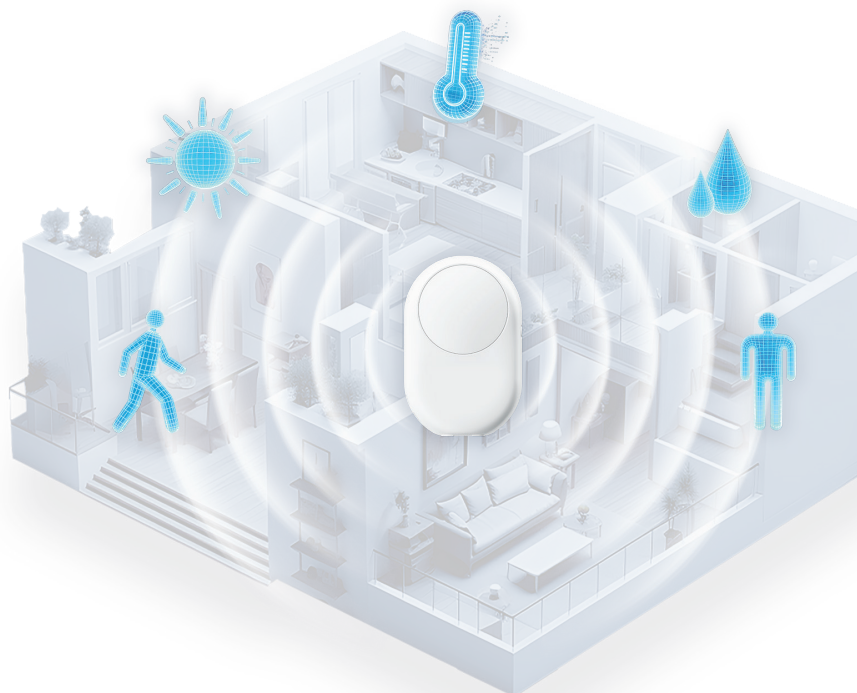
The Lafaer LWR02 is a 5-in-1 wireless presence sensor that detects presence, motion, temperature, humidity, and ambient light in a single compact device. It uses both mmWave radar and PIR sensors to accurately detect occupancy, covering up to 4 m (13 ft) for presence and 8 m (26 ft) for motion with an approximate 120° field of view.

The LWR02 runs on two AAA batteries for two years, supports flexible mounting options, and carries an IPX3 rating for protection against water spray. Built on Matter over Thread, it is compatible with Apple Home, Amazon Alexa, Google Home, Samsung SmartThings, Home Assistant, and Homey. Additional customization is available through the Lafaer app.

Highlights

5-in-1 Environmental Sensing

The LWR02 measures presence, motion, temperature, humidity, and ambient light from a single device, replacing multiple sensors and enabling automations like occupancy-based lighting or climate control that responds to room conditions.



Dual Detection Technology

By combining mmWave radar and PIR sensors, the LWR02 minimizes false triggers and missed detections, detecting occupancy reliably even when the user is stationary. Presence detection reaches up to 4 m (13 ft) and motion detection up to 8 m (26 ft), with an approximate 120° field of view.



Ultra-Long Battery Life

The LWR02 runs on two AAA batteries with a battery life of two years. Rechargeable batteries are also supported.

Compact Design and Flexible Installation

The LWR02 features a hemispherical magnetic base that supports adhesive mounting, shelf placement, or direct attachment to metal surfaces. The base allows 360° angle adjustment for precise sensor positioning across a variety of installation locations.



IPX3 Water Spray Protection

Rated IPX3, the LWR02 is protected against water spray, making it suitable for installation in kitchens, bathrooms, and other humidity-prone environments.



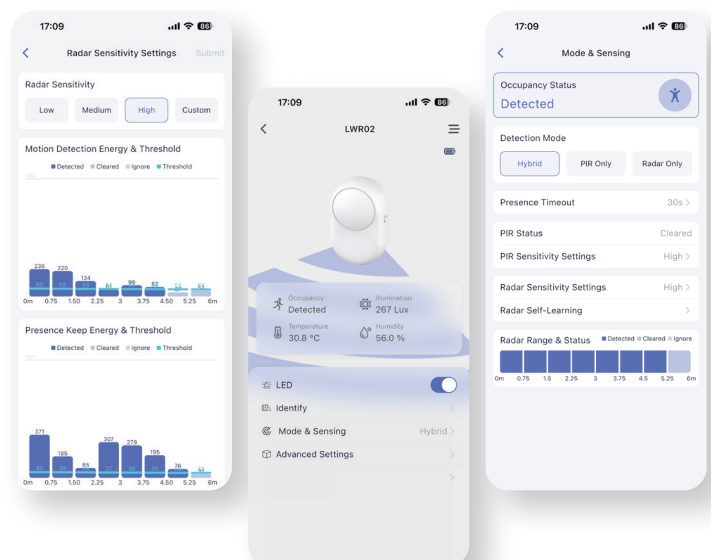
Matter over Thread

The LWR02 supports Matter over Thread, allowing it to connect quickly and reliably to major smart home platforms including Apple Home, Amazon Alexa, Google Home, Samsung SmartThings, Home Assistant, and Homey. All communication happens locally, with no cloud required.



Lafaer App Support

The Lafaer app lets users adjust detection sensitivity, making it easy to fine-tune the sensor for their home environment.



Specifications

Model	LWR02
Battery Type	2 x AAA Battery (Rechargeable batteries supported)
Detection Angle	Approx. 120°
Detection Range	Motion: 0° ~ 8m (26 ft), ±30° ~ 7m (23 ft), ±60° ~ 5.5m (18 ft) Presence: 0° ~ 4m (13 ft), ±30° ~ 3.5m (11 ft), ±60° ~ 3m (10 ft)
Communication Protocol	Matter over Thread
Wireless Standard	IEEE 802.15.4, 2.4 GHz
Dimensions	Device only: 71 × 46 × 36 mm (2.80 × 1.81 × 1.42 in) With stand: 71 × 46 × 49 mm (2.80 × 1.81 × 1.93 in)
Operating Temperature	0 ~ 40°C (32 ~104°F)
Protection Rating	IPX3

Package Contents

1 x User Guide 1 x Presence Sensor 1 x Magnetic wall mount	2 x Adhesive wall mount pad 2 x AAA batteries
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