

Tech specs

 BASELINE

LifeQuality Lite Jeweller

Wireless temperature and humidity monitor



Device compatibility

Check

Communication

 Jeweller communication technology

Proprietary wireless communication technology to transmit commands, alarms, and events.

Key features:

- Two-way communication.
- Advanced sabotage protection.
- Block encryption featuring a dynamic key.
- Instant notifications.
- Remote control and configuration in Ajax apps.

Learn more [>](#)

Frequency bands

866.0–866.5 MHz

868.0–868.6 MHz

868.7–869.2 MHz

905.0–926.5 MHz

915.85–926.5 MHz

921.0–922.0 MHz

Depends on the sales region.

Maximum effective radiated power (ERP)

up to 20 mW

Automatic power control to reduce power consumption and radio interference.

Radio signal modulation

GFSK

Radio communication range

up to 1,700 m

Between the device and a hub (or a range extender) in open space. Radio communication may be unavailable in industrial refrigeration chambers with shielded panels. It is recommended to perform Signal strength test at the installation site.

Calculate radio communication range at the facility >

Encrypted communication

All stored and transmitted data is protected by block encryption featuring a dynamic key.

Frequency hopping

To prevent radio interference and jamming.

Learn more >

Wings communication technology

Proprietary wireless communication technology for transmitting large data packets.

Key features:

- Two-way communication.
- Advanced sabotage protection.
- Block encryption featuring a dynamic key.
- Reloading data packets in case of transmission errors.

Learn more >

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868.0–868.6 MHz

868.7–869.2 MHz

905.0–926.5 MHz

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Frequency hopping

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Learn more >

Temperature measurement

Sensitive element

digital temperature and humidity sensor

Values in Ajax apps are updated at least once per minute, depending on the device polling interval.

Measurement range

from -30 °C to +50 °C

Measurement accuracy

±0.2 °C (from 0 °C to +50 °C)

±0.3 °C (from -10 °C to 0 °C)

±0.4 °C (from -20 °C to -10 °C)

±0.5 °C (from -30 °C to -20 °C)

Measurement pitch

0.1 °C

The minimum temperature change value recorded in the Ajax app.

Humidity measurement

Sensitive element

digital temperature and humidity sensor

Values in Ajax apps are updated at least once per minute, depending on the device polling interval.

Measurement range

from 0% to 100%

Measurement accuracy

±1.8%

When the temperature is above 0 °C.

At low temperatures, humidity measurement accuracy may decrease.

Measurement pitch

1%

The minimum humidity change value recorded in the Ajax app.

Additional features

Charts

of temperature and humidity

Available in Ajax apps. The data is updated in real time. The measurements are stored for up to two years.

Discrete value: 1 min.

LED indication

green: acceptable level

yellow: beyond acceptable levels

The LED indicator on the device enclosure lights up when a critical change in air quality is detected. A user can also enable the indication by

touching the front-panel touch button on the detector.

Scenarios

responses to changes in temperature or humidity

For example, enabling plenum ventilation if air quality deteriorates.

[Learn more](#) >

Backup memory

up to 3 days

The device stores all measured values if it loses communication with the hub (or radio signal range extender). Once the connection is restored, all values are sent to Ajax apps.

Recommendations

The device is designed only for indoor installation at any height. The SmartBracket mounting panel is not required.

After the device has been exposed to low temperatures, keep it at room temperature for 8–12 hours to prevent condensation and ensure stable sensor operation.

The device can be placed on a table or shelf.

Sabotage protection

Protection against spoofing

device authentication

Accelerometer

Signals attempts to detach the device from a surface, remove it from the mounting panel, or move from a table or shelf.

Communication loss detection

after 36 s

Detection time depends on Jeweller or Jeweller/Fibra settings.

[Learn more](#) >

Main power supply

Battery

2 × CR123A

Pre-installed.

Calculated battery life

up to 5 years

When operating at room temperature.

up to 2.5 years

When operating at sub-zero temperatures.

[Learn more](#) >

Enclosure

Dimensions

77 × 77 × 35 mm

Weight

118 g



Operating temperature range

from -30 °C to +50 °C

Operating humidity

up to 85% non-condensing

Color

Black

White



Complete set

LifeQuality Lite Jeweller

SmartBracket mounting panel

2 × CR123A battery (pre-installed)

Installation kit

Quick start guide

Certification and compliance with standards



LifeQuality Lite Jeweller



Additional information

[Compliance with standards](#)

[User manual](#)

[Learn more >](#)

[Learn more >](#)

Warranty

24 months

[Learn more >](#)

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Rating 4.8

4,500,000

people worldwide under Ajax protection

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System integrations

Ajax Ready products

Fibra wired protocol

Ajax radio protocols

Solutions

Customer stories

Solutions by facility type

Commercial fire detection and alarm system

Wireless Grade 3 solution

Wired Grade 3 solution

Outdoor intrusion protection

Video surveillance solution

Integration with Yale smart locks

Water damage prevention

Upgrades and retrofits

Why Ajax

How it works

Software

Ajax Security System

Ajax PRO: Tool for Engineers

Ajax Desktop

Ajax PRO Desktop

Ajax Response

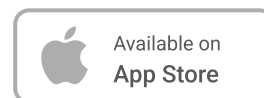
Ajax TV

Ajax Translator PRO

Ajax Cloud Signaling

Ajax Media Player

Scenarios



Support

Manuals and articles

Compliance with standards

Tools

Ajax kit configurator

Ajax device compatibility

Ajax compatibility with monitoring software

Ajax Services availability

Video storage calculator

Video device calculator

Battery life calculator

Radio communication range calculator

Switch and outlet configurator

Fibra power supply calculator

All web tools

Monitoring solutions and integrations

Intrusion alarm monitoring

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