

KE2 Wireless Temp + Humidity Sensor

Specification Sheet - S.6.11 Mar, 2026



Overview

KE2 Therm's wireless sensors offer an easy way to monitor, record, and alert on various functions, both locally and remotely. The KE2 Wireless Temp + Humidity Sensor communicates temperature and humidity data wirelessly to a smart device running the KE2 Service Tool App, or to a KE2 Edge Manager Plus/Cell installed on-site. This system provides a dashboard of all sensors, a timestamped data log and graph of the data, as well as the ability to send alerts. When published to the KE2 SmartAccess portal, the sensors can be viewed and adjusted remotely, while also providing additional alerting, reporting, sharing, and other capabilities.

Features and Benefits

- The display provides users a view of the current temperature reading. Additionally, the options button enables the user to see real-time humidity, record high, record low, average temperature, and average humidity for the stored data.
- The sensor records temperature and humidity in an internal data log, allowing it to be retrieved later via the KE2 Service Tool app or a KE2 Edge Manager. This can be pulled up during a service call for troubleshooting purposes. It also serves as a backup temperature log during power outages or when out of range of the KE2 Edge Manager.
- The probe features a robust IP67 construction that can withstand submersion in water. Combined with a measurement temperature range of -22°F to 176°F (-30°C to 80°C), the sensor is ideally suited for refrigeration and HVAC use.
- All installed sensors may be viewed in a single dashboard, with all other KE2 Therm sensors and controllers, either on-site via the KE2 Edge Manager or remotely via the KE2 SmartAccess portal. The KE2 Edge Manager and KE2 SmartAccess both provide additional logging, graphs, alerts, reports, and more.
- For quick access, opening the KE2 Service Tool app will search for all available KE2 Therm wireless sensors in the area and display them on a smartphone or tablet. Both the KE2 Service Tool App and KE2 Edge Manager create a webpage interface to view and manage the sensor.
- BACnet/IP communication is available via the KE2 Edge Manager with a BACnet license.

Specifications

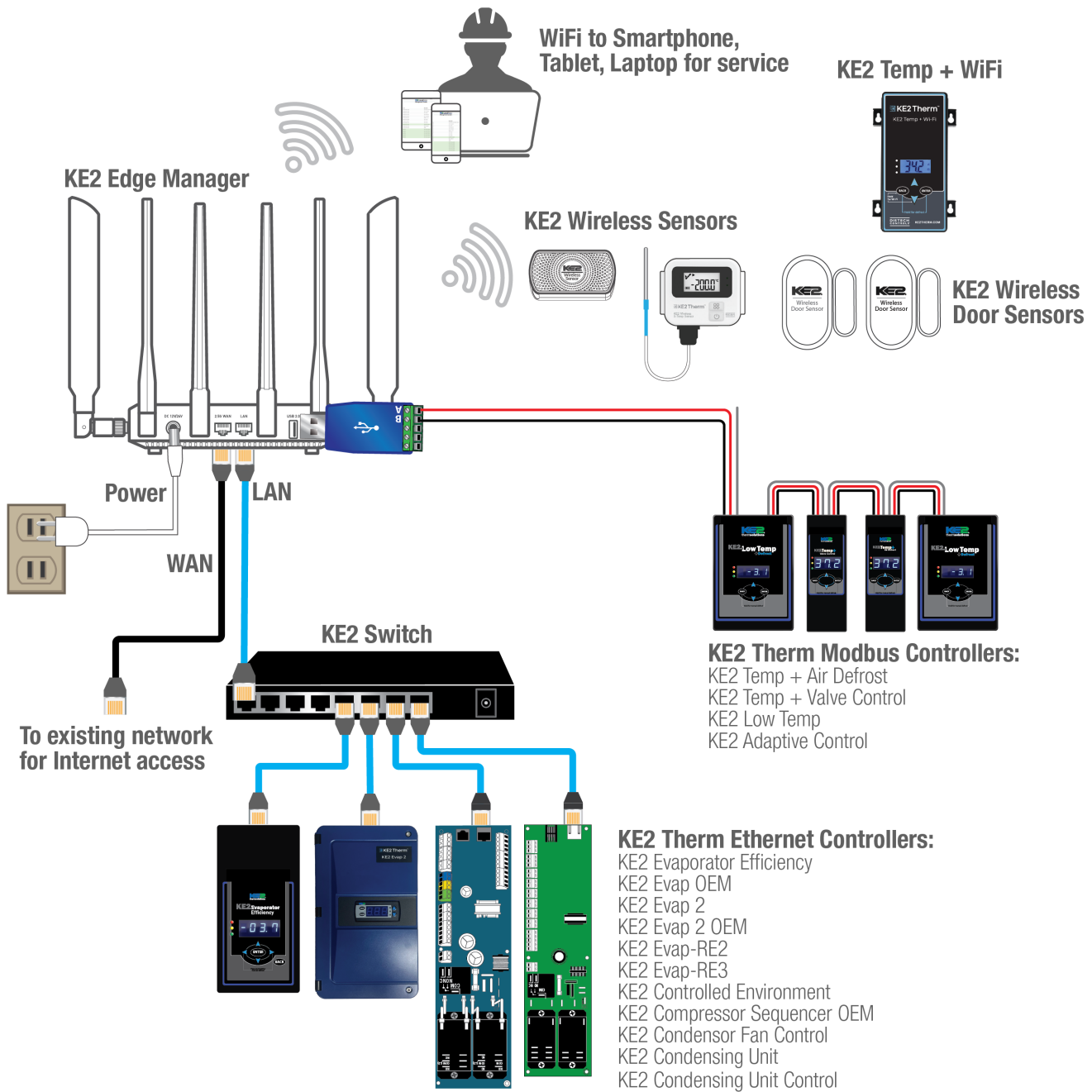
KE2 Wireless Temp + Humidity Sensor

Temperature Measurement Range:	-22°F to 176°F (-30°C to 80°C)
Temperature Measurement Accuracy:	±0.9°F (±0.5°C)
Humidity Measurement Range:	0 to 100% RH
Humidity Measurement Accuracy:	±5% RH
Body Operating Temperature:	-22°F to 158°F (-30°C to 70°C)
Body Operating Humidity:	0 to 95% RH, no condensation
Body Dimensions:	Width: 3.2" (82 mm) Height: 2.6" (66.5 mm) Depth: 1.2" (31.3 mm)
Probe Dimensions:	0.5" (13 mm) x 2" (51 mm)
Probe & Cable Length:	3.3' (1 m)
Ingress Protection:	Body: IP65 Probe: IP67
Battery:	3.6 V 2,700 mAh AA lithium, replaceable
Battery Life:	3 years
Log Capacity:	20,480 entries, overwrites oldest data once full
Broadcast Range:	330 ft (100 m), line of sight
Communication:	With KE2-EM: TCP/IP webpage, BACnet/IP

Part Numbers

PN	Model	Description
22238	KE2 Wireless Temp + Hum Sensor	Monitor temperature and humidity. Adjustable alerts for high/low temperature and humidity. Log and graph temperature/humidity. Requires KE2-EM Plus/Cell or KE2 Service Tool app. Includes mounting bracket.

General Diagram / Layout



FCC / IC Information



FCC ID: 2AOPR-22238 IC: 23544-22238

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

FCC warning:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

IC Information

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

The term "IC: " before the certification/registration number only signifies that the Industry Canada technical specifications were met. This product meets the applicable Industry Canada technical specifications.

Cet appareil contient des émetteurs / récepteurs exemptés de licence conformes aux RSS (RSS) d'Innovation, Sciences et Développement économique Canada. L'exploitation est autorisée aux deux conditions suivantes :

1. l'appareil ne doit pas produire de brouillage, et
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Cet émetteur ne doit pas être Co-placé ou ne fonctionnant en même temps qu'aucune autre antenne ou émetteur. Cet équipement devrait être installé et actionné avec une distance minimum de 20 centimètres entre le radiateur et votre corps.

Specifications subject to change without notice.

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