



KE2 Wireless Sensor

for Temperature & Humidity
pn 21632 & pn 21633

Ideal for monitoring in commercial refrigeration applications, or other temperature & humidity sensitive applications...and with the KE2 Connect Edge Manager gateway, onsite access is FREE - you own your data...you are not at the mercy of your "cloud" provider.

Introduction:

Waterproof and portable, the **KE2 Wireless Sensor** is a high-precision digital temperature and humidity indicator (thermo-hygrometer). The wireless signal and light-weight design mean installation takes just seconds. And, the sensor's 3-year battery life ensures low maintenance and extended performance.

The KE2 Edge Manager automatically finds and dashboards **KE2 Wireless Sensors** and KE2 Therm controllers*. So, local monitoring is almost instantaneous, and IT support is generally not necessary. Remote monitoring is easily achieved by using KE2 Therm's KE2 SmartAccess Portal or the KE2 Connect Portal.

After powering the unit on, the KE2 Edge Manager will automatically locate the KE2 Wireless Sensor and provide temperature and humidity data.

The KE2 Wireless Sensor uses a high-quality, integrated digital temperature and humidity sensor module, ensuring the transmitter's superior long-term stability, low latency and resistance to chemical contamination, thus providing an excellent platform to deliver temperature and humidity data.

Application:

The **KE2 Wireless Sensor** can be used to measure environmental temperature and humidity in industrial, commercial, and residential environments. Common applications are: laboratory, agricultural, communications, storage facilities, warehouses, refrigerated spaces, medical and hospitality.

**KE2 Edge Manager is available in several models, that can find and dashboard 35, 100 or 250 devices, based on the part number.*



pn 21632



with Remote Probe pn 21633

Features & Benefits:

- High-accuracy digital temperature and humidity sensor inside
- Temperature monitoring - tenths of a degree
- Humidity monitoring - relative humidity +/- .25%
- Configurable location name
- Wireless signal - using BLE 4.1 (Bluetooth Low Energy device)
- E-mail/Text alerts (see list below)
- IP66 waterproof level
- 300ft./100m broadcasting range
- 3- year battery life (AAA)
- Low battery indicator
- 12-month free KE2 portal access
- Very fast start-up and measurement time
- Real-time data tracking, storing, & uploading

Alarms:

- High/low temp alarm with adjustable time delay
- High/low humidity with adjustable time delay
- Disconnect alarm - KE2 Edge Manager loses contact with sensor
- Device loss alarm - KE2 Wireless Sensor loses contact for an extended period (user defined)
- Portal Disconnect Alarm (optional)
- Low battery indicator



FCC: 2A0PP-21632
IC: 23545-21632

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Physical Properties:

(21632) - KE2 Wireless Sensor for Temperature and Humidity

(21633) - KE2 Wireless Sensor with Remote Probe for Temperature and Humidity - 36" sensor wire

Waterproof Level	IP66
Case Material	ABS
Case Color	White
Product Dimensions	70.6 x 38 x 17.8mm
Unit Weight	1.52 oz. / 43g
Battery Type	(2) AAA - FRO3 Li-Fe batteries
Voltage	3V
Data Access	Edge Manager Product Line or KE2 Connect Mobile Client
Average Power Consumption	35uA
Transmission Range	Max. 300ft/100m in open space
Assemble	Adhesive strip

Technical Specifications:

Item		Value	Error Range
Temperature	Range	-40°F to 158°F -40°C to 70°C	Depends on battery working environment
	Accuracy	50°F 10°C	0.9F° 0.5C°
Humidity	Range	0%RH to 100%RH	----
	Measure Accuracy	0%RH to 90%RH	±2.5% RH
		≥90%RH	±3.5% RH
Resolution	0.05%RH	----	
Sampling Period	----	Once per second	----

Electrical Specifications:

Static Current	<3uA (power consumption under power-off status)
Peak Current	<8mA
Average Current	<35uA (not including power consumption on data transmission)
Battery Type	FRO3
Battery Capacity	1250mAH
Lifetime	Over 3 years

Environmental Properties:

Working Temperature	-40°F to 158°F / -40°C to 70°C
Long-term Storage Temperature	50°F to 77°F, ≤ 65%RH / 10°C to 25°C, ≤ 65%RH

