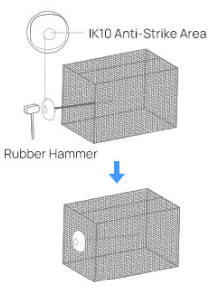
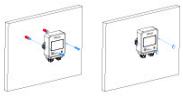
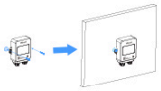
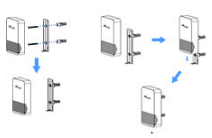
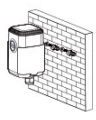
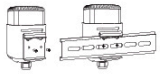
Capteurs LoRaWAN | Température et humidité

	TS101 Insertion Temperature Sensor	TS30X Temperature Sensor	EM320-TH Temperature and Humidity Sensor	EM300-TH Temperature & Humidity Sensor	EM500-PT100 Industrial Temperature Sensor
Product					
Typical Application					
	Tobacco Storage Farm Haystacks Compost Piles	Medical Industry Food-Related Scenarios Such as Restaurant Factory Workshops	Inside Freezers/Boxes Refrigerated Transport Vehicles Logistics Transport Vehicles Park School Outdoor Area City Streets Basement Storage Room	Park School Outdoor Area City Streets Basement Storage Room	Large-Range Industrial-Grade Boilers
Sensor Type	DS18B20	PT100	Digital	Digital	PT100
Detect Type	Contact	Contact	Non-contact	Non-contact	Contact
Range	-30°C~70°C	B05-125-200: -40 °C~125 °C AF10-125-150: -40 °C~125 °C A05-500-150: -50 °C~500 °C	-30°C~60°C	-30°C~70°C	T050: -200 °C ~50 °C T200: -50 °C ~200 °C T500: -50 °C ~500 °C T800: -50 °C ~800 °C (Customizable from -200 °C~800 °C)
Food Grade Support	√	AF10-125-150 Support	√	/	/
Other Sensors		Door Magnet Switch Sensor (Optional)	Humidity	Humidity	
Range of Applications	Plug-in Temperature Detection for food-Related Scenarios	Low-Cost & Non-Food Grade Solution Food-Grade Applications Wide Temperature Range for Industrial Environments	Indoor and Outdoor Air Temperature and Humidity	Indoor and Outdoor Air Temperature and Humidity	Large-Range Industrial-Grade Temperature-Critical Detecting
Installation	 Insertion	 Install with Wall Plugs and Screws  Install with Magnetic Nut (Optional Accessory)	 Wall Mounting (Standard Version) Magnetic Adsorption (Magnet Version)	 Wall Mounting	 Wall Mounting Pole Mounting  DIN Rail Mounting

EBDS WIRELESS & ANTENNAS

By employing different methods of air temperature monitoring and contact-based temperature detection, a wide range of applications in various industries can be achieved. The use of food-grade materials ensures safety and applicability in cold chain and medical applications, while also covering large-range temperature detection for industrial purposes. This versatility allows for the fulfillment of everyday needs, ranging from food-grade to industrial-grade applications.

Cold-chain

Medicine

Factory

Apartment

Milesight

	Insertion Temperature Sensor TS101	LoRaWAN® Temperature Sensor TS30X	Temperature and Humidity Sensor EM320-TH	Temperature & Humidity Sensor EM300-TH	Industrial Temperature Sensor EM500-PT100
Temperature Range	-30°C~+70°C	B05-125-200:-40°C~125°C AF10-125-100:-40°C~125°C A05-500-150:-50°C-500°C	-30°C to +60°C	-30°C -70°C	T050:-200°C to +50°C T200: -50°C to +200°C T500: -50°C to +500°C T800:-50°C to +800°C
Temperature Sensor Type	DS18B20	PT100 Class B Food-Grade PT100 Class A Industrial-Grade PT100 Class A	Digital	Digital	PT100 Class A PT100 Class B
Detecting Way	Contact Temperature Measurement	Contact Temperature Measurement	Air Temperature Measurement	Air Temperature Measurement	Contact Temperature Measurement
Probe	Needle Food Grade 316 Stainless Steel	Straight Tube 304 Stainless Steel Needle Food Grade 316 Stainless Steel Straight tube 304Stainless Steel	/	/	Straight Tube (Customizable)
Humidity Detection	×	×	√	√	×
Range of Applications	Plug-in Temperature Detection for Food-Related Scenarios	Low-Cost & Non-Food Grade Solution Food-Grade Applications Wide Temperature Range for Industrial Environments	Indoor and Outdoor Air Temperature and Humidity	Indoor and Outdoor Air Temperature and Humidity	Large-Range Industrial-Grade & Temperature-Critical Detecting
Typical Application	Tobacco Storage Farm Haystacks Compost Piles	medical industry, including pharmaceutical refrigeration, storage, transportation, etc. Restaurants, cafeterias, food processing plants, cold chain fresh transportation, and other food-related scenarios Factory workshops, fire alarms, and temperature monitoring of hot water systems in buildings	Inside Freezers/Boxes Refrigerated Transport Vehicles Logistics Transport Vehicles Park School Outdoor Area City Streets Basement Storage Room...)	Park School Outdoor Area City Streets Basement Storage Room	Motors Boilers
Food Grade	√	√	√	×	×
Accuracy	± 0.5°C	B05-125-200: ± 0.5°C (-40°C~40°C), ± 1°C (40°C~125°C) AF10-125-100: ± 0.4°C A05-500-150: ± 0.5°C	+/- 0.2°C	0°C to + 70°C (+/- 0.3°C) -30°C to 0°C (+/- 0.6°C)	±0.5°C
Power Supply	1 × 4000 mAh ER18505 Li-SOCL$_2$ Replaceable Battery	2 × 4000 mAh ER18505 Li-SOCL2 Batteries or Type-C USB (5V/1A)	2 × 2700 mAh ER14505 Li-SOCL2 Batteries	1 × 4000 mAh ER18505 Li-SOCL2 battery (extendable to 2 batteries)	19000 mAh Li-SOCL2 battery (ER34615)
Battery Life	10 Years (1 Hour Report Interval, 25°C)	/	≥5 years (10 min interval with data retransmission disabled)	10 years (10 min interval)	10 Years (10 min interval)

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