

[Features]

- Can be placed directly in the refrigerator, with its own battery, quick installation and no engineering.
- Optional "temperature", "temperature and humidity", "CO2", "PM2.5" or "TVOC" sensors.
- Bluetooth Mesh, non-traditional star structure.
- The device itself is both a sensor and a communication springboard.
- Built-in battery capacity up to 15000mAh.
- Equipped with a temperature and humidity sensor, under good communication conditions, the battery can be used for more than two years for one charge per minute.
- The point-to-point transmission distance is 20 meters indoors and 50 meters outdoors.
- The communication signal can cross the compartment floor or even the building in the indoor space.
- Up to 10 springboards can be jumped on the communication transmission.
- Can transmit value/power/return rate.
- Can read the response status of all sensors, and then understand the communication status of the field.
- With TAF certification.
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[Applications] Medical refrigerators, greenhouses, indoor air products, cold chain

[Optional code]

SKYNET - Code 1 - Code 2 - Code 3

Code 1	Function	Code 2	Sensor	Code 3	Power
S	Sensing end	T	Temp	B	15,000mAh Lithium battery
		TR	Temp/ humidity		
		CO2	CO2	5	5V Type C Power supply
		P2	PM2.5		
		V	TVOC		

※If you need Client or Repeater, please refer to OBT catalog.

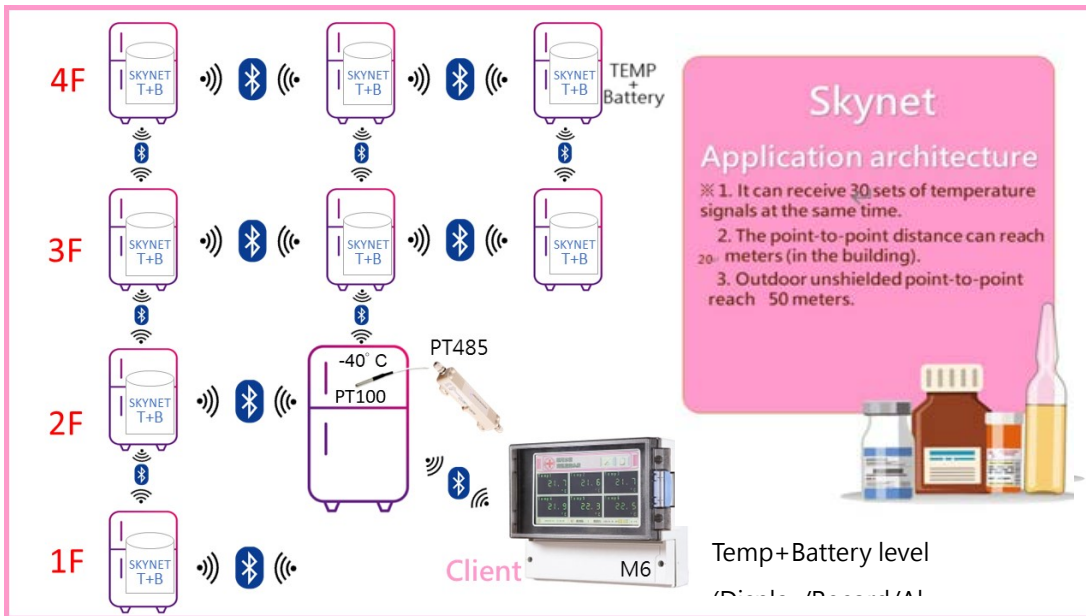
[Specifications]

Power	Type C 5VDC or 4.2V Lithium battery	Power Consumption	62mW
Communication	Bluetooth BT Mesh		
Signal input	RS-485 or optional Temp and RH sensors / CO2 / PM2.5		
Dimension	Ø85x116(mm)		
Weight	600g		
Patent	M594326		

SKYNET Specifications

Sensors Principle	Range	T90	Operating temperature	Resolution	Accuracy	Environmental equilibrium time (Change location)	
Temp (Semiconductor)	(-)25~(+)85°C	<120Sec	(-)25~(+)85°C	~0.1°C	±0.4°C	< 40min	
RH (Capacitive)	0% ~ 100%	<120 Sec	(-)25~(+)60°C	~0.1%	±3%	< 40min	
CO ₂ (Infrared)	0~10,000ppm	<120 S	0~50°C	1ppm	±30ppm ±3% of Reading	10sec	
PM2.5 (Laser)	0~1,000µg / m ³	<90 S	-10°C~65°C	0.1 µg / m ³	±10µg/ m ³ ±5% of Reading	5min	
TVOC (Semiconductor)	0~60ppm	<90 S	0°C~40°C	Range	Resolution	±10%	10min
				≤2.008 ppm	1 ppb		
				≤11.11 ppm	6 ppb		
				≤60 ppm	32 ppb		

[Application Architecture]



[Dimension]

