NSnappy® Sense LWEU

Probe Thermometer

NSnappy® Sense is a probe thermometer for the effortless measurement of internal food temperatures.

NSnappy® Sense is a food-safe and reliable wireless probe thermometer for measuring the temperature of food products. NSnappy® Sense relays measurement data automatically to the NSnappy® service over a LoRaWAN radio connection. The measuring device can be used with any terminal device equipped with an internet connection.

In normal use, NSnappy® Sense operates for more than a year on its battery. The measuring device comes with the NSure continuous warranty for IoT measuring devices, which involves calibrating the unit regularly and replacing the battery.

Applications

Commercial kitchens   **Industry**

Product highlights

- The thin and durable probe sensor provides fast response time

- Automatic transmission of measurement data

- Easy to use

- Food-safe

- A stainless steel measuring probe

- Easy to keep clean

- Does not require a mobile app or Bluetooth connection

- Works with all devices with an internet connection and access to the NSnappy® service with a browser

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Environment

Storage conditions	-40...+60°C, relative humidity 5-95%, non-condensing
Operating conditions	-20...+45°C, relative humidity 0-100%
Protection class	IP65
Enclosure material	PC+ABS (Bayblend® T88-4N)

Dimensions

Dimensions	224 x 28 x 23 mm

Temperature measurement probe

Probe	80 mm long, 2 mm diameter, hollow stainless steel probe with sharp tip
Sensor	Pt100 sensor element inside of the probe tip
Measuring range	-50...+200°C (theoretical Pt100 linearized range -200...+600°C)
Accuracy	±0,5 °C within range -30...+100 °C, when device temperature is +5...+45°C and stable
Measuring interval	About 5 seconds

Radio connection

Description	LoRaWAN standard, EU 868 MHz frequency range
Transmitter module	Murata ABZ-093 LoRaWAN modem
Antenna	Internal
Compatibility	The device that uses a LoRaWAN radio connection requires an NSnappy® Hub LoRaWAN base station to function
Frequency	863-870 MHz (LoRaWAN 1.0.2 EU band)
Power	Max +14 dBm E.R.P.
Range	Depends on environment, indoors: in good conditions up to hundreds of meters, outdoors: line-of-sight up to 10 km

Power supply

Type	3.6 V lithium thionyl chloride primary battery, not user replaceable
Battery life	At least 1 year with 20 minutes of use per day