NSnappy® Cool LWEU-N

Cooling transmitter

NSnappy® Cool is a cooling transmitter designed for accurate and automated measurement and monitoring cooling duration.

The NSnappy® Cool cooling transmitter is mounted on the GN container of the blast chiller and the probe is inserted in the food being cooled. NSnappy® Cool is activated by movement and temperature to automatically measure the cooling process. The temperature profile and cooling duration of the cooling process are automatically stored in the NSnappy® services over a LoRaWAN radio connection. In the NSnappy® service, you can add details on the foodstuffs that have been cooled and a batch code, for example.

In normal use, NSnappy® Cool 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

- Automates the monitoring of food cooling

- Does not require fixed installation inside the blast chiller

- Extremely quick and easy to use

- Trends and reports of the cooling events are available via the NSnappy® service

- Battery replaceable by the user

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Environment

Storage conditions	-40...+60°C, relative humidity 5-95%, non-condensing
Operating conditions	-30...+60°C, relative humidity 0-100%
Protection class	IP67
Enclosure material	Enclosure ABS, gaskets silicone, screws stainless steel SUS304

Dimensions

Dimensions	79 x 28 x 126 mm not including probe and cable
Weight	192 g

Temperature measurement

Probe	100 mm long, 4 mm diameter, hollow stainless steel probe
Cable and handle	100 mm long rubber cable, cable and handle material food-safe and FDA approved
Sensor	Pt1000 sensor element inside of the probe tip
Measuring range	-40...+105 °C
Accuracy	±0,5 °C within range -30...+30 °C
Measuring interval	Normal 60 seconds, minimum 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 pcs LR03 (AAA 1.5 V alkaline). User replaceable. For the best battery life, use only high quality batteries
Battery life	At least 1 year when used 4 hours per day