

NSnappy® Sense IR LWEU

Infrared thermometer

NSnappy® Sense IR is a fast non-contact infrared thermometer for measuring the surface temperature of foodstuffs.

NSnappy® Sense IR is a food-safe and reliable wireless infrared thermometer for measuring the surface temperature of food products. The device is suitable for acceptance inspections or measuring serving temperatures. NSnappy® Sense IR 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 IR 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 infrared sensor ensures fast response time
- Automatic transmission of measurement data
- Easy to use
- Food-safe
- 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 5-95%, non-condensing
Protection class	IP65
Enclosure material	PC+ABS (Bayblend [®] T88-4N)

Dimensions

Dimensions	119 x 28 x 23 mm
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IR temperature measurement

Sensor	Gradient-compensated thermopile infrared temperature sensor with integrated optics
Measurement beam	12°, practical measurement distance 5...20 cm
Target emissivity	Fixed 0,95
Measuring range	-70...+380°C
Accuracy	±1 °C within range -20...+100°C, when device temperature is +5...+45°C and stable ±2 °C within range -40...+120°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