

NSnappy® Wash

Dishwashing measurement device

The Wash device is designed for mapping and monitoring the temperature profile of dishwashers.

The device is placed in the washing basket of the dishwasher among other dishes, where it measures the temperature of the water sprayed on the dishes throughout the process. Wash measures the temperature of the water on the surface of the dishes, not the temperature of the water in the washing machine's tanks. The data is sent to the NSnappy service immediately after the washing process is finished.

The NSnappy service saves a washing event from each profiling, to which additional information can be added, for example about what kind of dishes were washed. By monitoring the temperature profiles of washing events, the need for maintenance or adjustment of the washing machine can be predicted.



Applications



Commercial kitchens



Industry

Product highlights

- No need for fixed installation
- Extremely easy and quick to use
- Measures the temperature of the water on the surface of the dishes, not from the tanks
- Detect changes in the operation of the dishwasher



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Environment

Storage conditions	-40...+40 °C, stationary, relative humidity 5-95%, non-condensing
Operating conditions	0...+90 °C, during max 10 min wash cycle
Protection class	IP68
Enclosure material	PC+ABS

Dimensions

Dimensions	107mm x 68mm x 27mm
Weight	0.2 kg

Temperature measurement

Sensor	Pt1000 Class B
Measuring interval	1s, only max value from 5s period is transmitted
Measuring range	-30...+90 °C
Accuracy	±1°C within +30...+90°C

Radio connection

Description	LoRaWAN standard, EU 868 MHz frequency range
Transmitter module	Murata ABZ-093 LoRaWAN modem
Antenna	Internal
Compatibility	Nokeval NSnappy Hubs and Cloud Service
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	3.6V Lithium Thionyl battery pack (3 x AA size)
Battery life	5 years with 20 min usage per day