

# NSnappy® Hygi LWEU-N

## ATP luminometer

**NSnappy® Hygi is an ATP luminometer designed for quick measurement of surface cleanliness samples with the NSnappy® service.**

NSnappy® Hygi uses the luminometry method for the quick analysis of surface hygiene samples collected with the ATP test swab. The wireless device relays information directly to the NSnappy® service over a LoRaWAN radio connection. The NSnappy® Hygi luminometer can be used with any terminal device equipped with an internet connection.

In normal use, NSnappy® Hygi operates on the battery for three years. 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

- Quick and easy to use
- Results are stored automatically in the NSnappy® service
- Surface cleanliness results available as trend graphs in NSnappy
- The wireless measuring device does not require charging
- Does not require a mobile app, a Bluetooth connection or attaching cables to a computer
- Works with all devices with an internet connection and access to the NSnappy® service with a browser



# NSnappy® Hygi

## ATP luminometer



### Environment

Storage conditions	+5...+40 °C, relative humidity 5-95%, non-condensing
Operating conditions	+20...+30 °C, relative humidity 5-95%, non-condensing
Protection class	IP20
Enclosure material	PC+ABS plastic

### Dimensions

Dimensions	198 x 47 x 27 mm
Weight	Approx. 190 g, not including swab

### Measuring method

Description	ATP luminometry based on a photodiode
Measuring time	Approx. 15 s
Measurement unit	RLU (Relative Light Unit, where 1 RLU is roughly equivalent to 1 fmol ATP)
Measuring range	0...99999 RLU
Display resolution	1 RLU
Measuring noise	±5 RLU
Measuring accuracy	±20% ± 5 RLU

### Sampling method

Single-use swab	Hygiena® UltraSnap® ATP surface hygiene sampling swab
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### User interface

Display	Two-digit 7-segment-LED display
Power button	Tactile silicone rubber switch

### 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 battery pack (1 x AA size)
Battery life	3 years in normal use (approx. 100 operating hours)