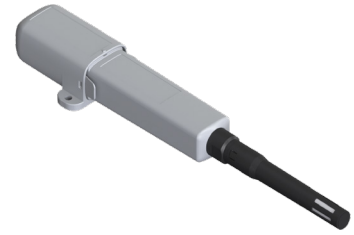


Flex2-nSens LWEU/LWNA

Transmitter

The Flex2 series is a multipurpose weatherproof LoRaWAN transmitter series with several input options for various needs of industrial measurement and monitoring. The LoRaWAN radio offers a long range, especially outdoors, and connectivity to all standard LoRaWAN systems.

Flex2-nSens LWEU/LWNA measures temperature and humidity using a Novasina nSens probe. The probe is not included.



Applications



Industry

Product highlights and features

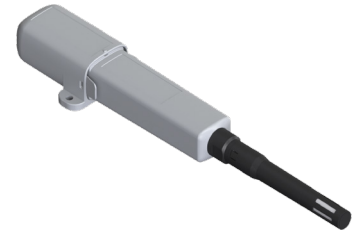
High measurement accuracy and reliability

Weatherproof

The LoRaWAN radio offers a long range, especially outdoors, and connectivity to all standard LoRaWAN systems

Flex2-nSens LWEU/LWNA

Transmitter



Environment

Operating temperature	-30...+60 °C
Operating humidity	0-100 %RH
Protection class	IP65
Enclosure material	Plastic (PC+ABS)

Measurements

Dimensions	Width 60 mm, depth 32.5 mm, height: height: 292.8 mm (probe attached)
Weight	Radio modules: 35g Measurement modules: 70g (slight variation between Flex2 models)
Cable gland	M12x1.5

Measuring and data transmission

Measure interval	Configurable: 0...14400s
Radio	LoRa radio technology with Murata ABZ-093 LoRaWAN modem
Antenna	Internal
Frequency band	EU868: 863-870 MHz / US915: 902-928 MHz
Transmission power	Max +14 dBm E.R.P.
Range, line-of-sight	Depends on installation location and environment, in good conditions 10 km

Power supply

Batteries	3.6V Lithium Thionyl battery pack
Typical battery life	With a good radio link and 5 min measurement interval, typically 5 years With an average radio link and 30 min measurement interval, typically 5 years With a bad radio link and 30 min measurement interval, typically 3 years

nSens module

Sensor type	Novasina nSens-HT-ENS or nSens-HT-CSS, not supplied
Cable length	max 2 m
Measurement range	See Novasina's documentation; max temperature 60 °C for the meas. module
Accuracy	See Novasina's documentation