

nemi Connect

Small data receiver for direct connection to the PC via USB-C

Description

nemi Connect is a compact receiver for up to eight sensor nodes in the radio network nemi Link 2400. It transmits the received data directly to your PC via USB connection. The supplied PC software allows easy configuration, data display and storage for uncomplicated further processing.

Key Features

- **Compact design**
(56 x 46 x 27) mm
- **Receiver for up to 8 sensor nodes** in the radio network nemi Link 2400
- Cabled data transmission via **USB interface**
- Easy handling due to **direct connection to PC** via USB-C
- **Included software** simplifies configuration, live display and storage of data for uncomplicated further processing



nemi Link 2400 - i4M's own robust and **flexible radio technology** in the 2.4 GHz frequency band



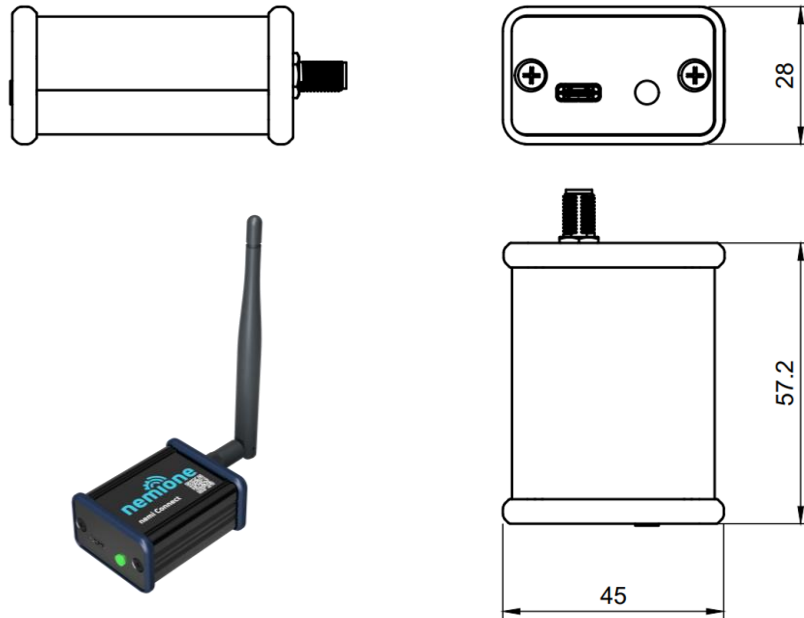
Power supply and data transfer via **USB-C**

Specifications

General information		
Dimensions (without antenna and connectors)	56 x 46 x 27	mm
Weight	approx. 60	grams
External power supply	5 (USB-C)	V
Data connection to the PC	USB-C to standard USB 2.0	-
PC software for changing settings, displaying and saving data	Supplied	-
Temperature range permitted during operation	-20 to 80	°C
Housing protection class	IP 41	-

Dimensions

(All dimensions in mm)



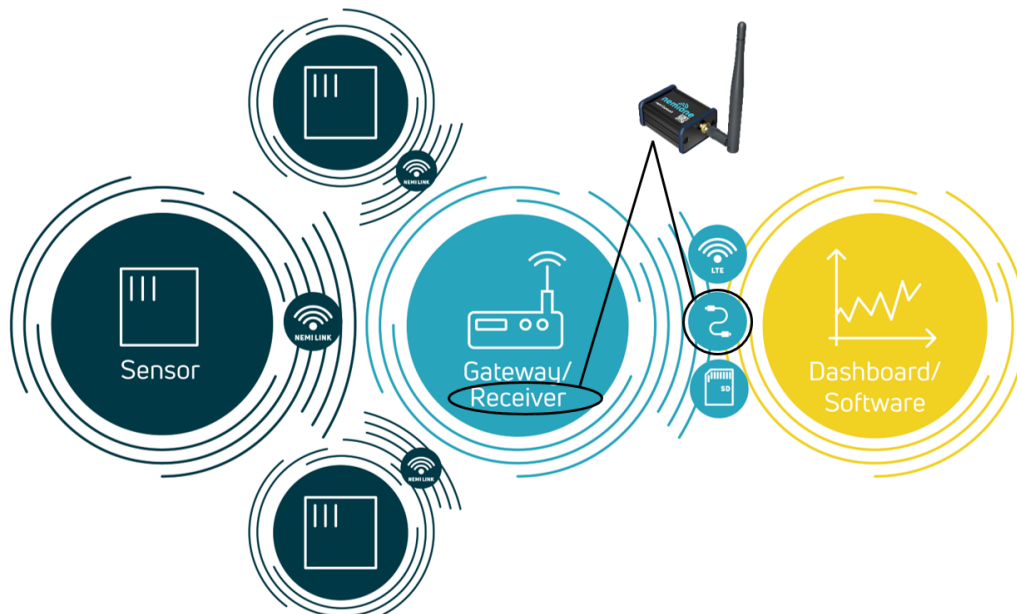
LED Blink Codes

The nemione® nemi Connect has an integrated LED that are visible through the housing. This flashing indicates the operating status of the receiver module.

Operating Mode	Description
Red flashing	Software not connected
Rapid Green flashing	Data recording successful

Data transmission

nemi Connect is a receiver module that can be used to receive data from up to eight wireless sensor nodes in the nemi Link 2400 radio network. nemi Connect then transmits the data via USB-C cable directly to a connected measuring computer.



Radio technology nemi Link 2400

Our own radio technology nemi Link 2400 is a wireless, battery-powered sensor network in the 2.4 GHz frequency band with star topology and one receiver module. This high-speed network enables the reliable transmission of data at high sampling rates. The high efficiency of our robust radio technology enables very long battery runtimes of our products. Our wireless sensors synchronize their internal clocks to the clock of the receiver module with extremely small deviations.

To optimize the measurements of a use case, nemi Link 2400 offers the possibility to adjust the number of sensor nodes per radio channel and the radio speed to achieve the perfect balance between range, data rate and runtimes for each application.

Please find detailed information in the nemi Link 2400 [info sheet](#).

Compatible sensor nodes in the nemi Link 2400 wireless network

nemi Connect is compatible with all sensor nodes in i4M's nemi Link 2400 network. The following products are available under the nemione® trademark:



[nemi G+](#)



[nemi G+ nano](#)



[nemi DAQ](#)

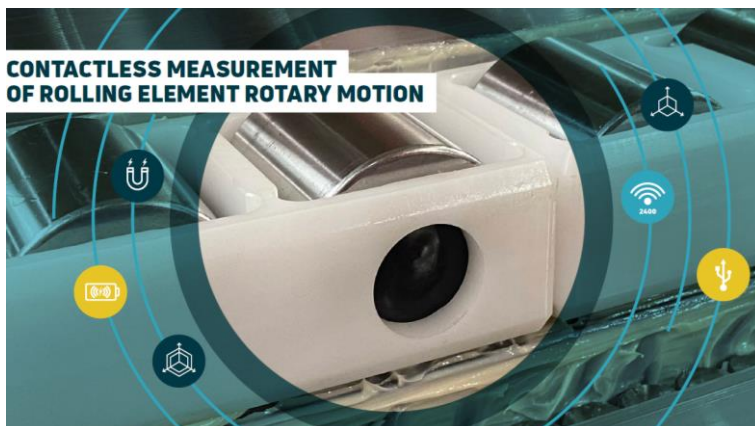


[nemi DAQ nano](#)

Application

nemi Connect is suitable as a basic product for all applications in which the receiver is connected directly to the PC. It is particularly popular for receiving sensor data at test benches or in prototype applications.

Download use case:

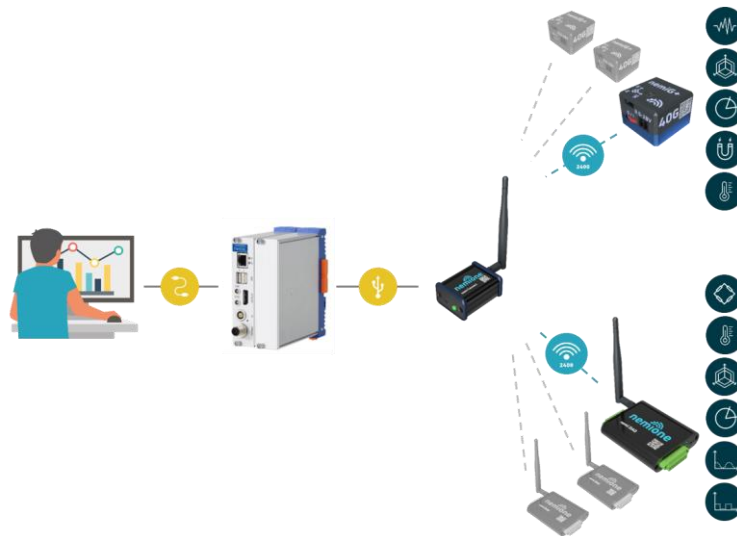


Wireless extension for Gantner Instruments-DAQ systems

With nemi Connect, the wirelessly transmitted data can be displayed directly in GI Bench. For this purpose, nemi Connect is connected to a Gantner Instruments controller via USB cable. nemi Connect receives the data from nemione® sensor nodes in the nemi Link 2400 wireless network and transfers them directly into GI Bench.

Advantages:

- Digital data remain digital
- Direct time synchronization via GI DAQ network
- Data feed directly into GI DAQ network / Cloud
- Data evaluation at the Edge via Python



Data Analysis

Upon request, we will be happy to support you with data analysis. The data analyses can be performed directly in the sensor or in the gateway by edge analytics as well as on the server or measuring computer. A great advantage of edge analytics is the **reduction of the transmitted data to the essentials** ("smart data"). This **reduces storage space** and **increases battery runtimes**.

Based on our knowledge from a multitude of previous projects, we have developed **algorithms for data evaluation** to generate **maximum added value** for our customers. We will gladly advise you on this. In addition to our existing algorithms we create **individualized scripts** upon request.

At the same time, the **data remains your capital**: We do not rely on big cloud providers but **keep the data in your IT ecosystem**. Alternatively, you can rely on our nemione® cloud solutions - hosted in the European Union.

Contact

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