





# Network node Q node 5

The network node **Q node 5** receives and processes the data from consumption metering devices within the **QAMR** system.

The network node works extremely well in more complex building environments.

Integration in the high-end system Q AMR via the PC radio module WTZ.RM permits the wireless readout of AMR systems, monitoring during installation and determination of the optimum installation point for the network node.

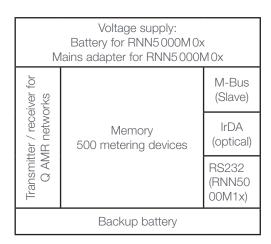
Network nodes of the type RNN5000M0x are battery-operated. There is a mains-operated version RNN5000M1x available.



### **Functions**

- ▶ Reception and storage of data from the consumption metering devices
- Automatic set-up of a network comprising up to 12 x Q node 5 (up to max. 500 consumption metering devices)
- > Distribution of all relevant consumption values to all Q node 5 within a network
- ) Copy mode to transfer data (device list incl. passwords and statistic values) of a node within a network to a new node
- Delete mode (in installed state) to remove devices to be replaced from the system list
- ) IrDA teach and delete mode to add or remove new devices to or from a system and to synchronise the device list.
- Firmware update via USB adapter

The network nodes Q node 5 are made up of the following components:



Transmitter and receiver are used for recording the data from consumption metering devices and forwarding these to other network nodes in the same network. The transmitter is used for communication with other network nodes. The data memory contains the measuring data from the consumption metering devices. It is protected against temporary power failure, for instance during mains power failure or replacement of the main battery, by the backup battery.

# Type summary

The network node Q node 5 is part of the Q AMR system and can only be used with this.

Туре	Power supply		Accessories	
RNN5000M0x	Battery		RNNP H001 0010	USB programming adapter
RNN5000M1x	Mains power	'		

#### Further notes

Further notes about the Network node Qnode5 can be found in the installation and operating manual as well as in the Q AMR system manual.

#### M-Bus connection

The M-Bus can be connected permanently (fixed installation) to each network node with the aid of a connector. The connector is included in the scope of supply. There is an additional plug connector available for temporary connection (e.g. during service).

# Optical IrDA interface

Every network node Q node 5 is equipped with an IrDA interface. This is permanently active and used for servicing with commissioning tools or for data exchange with other IrDA-capable QUNDIS products. If the network node itself is to take over the function of the IrDA-Master (e.g. during data exchange with a metering device), the IrDA-Master mode must be started manually.



# Technical data

#### Energy supply / power

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Type RNN5000M0x Current supply main and backup battery Lifetime of main battery Lifetime of backup battery	Rated voltage: DC 3.6 V > 5 years (with factory settings) > 10 years	
Type RNN5000M1x Rated voltage	AC 100240 V 50/60 Hz	
Frequency band	(868,3 +/- 0,3) MHz	
Transmission power	< 14 dBm	
Duty cycle	< 1 %	

#### Ambient conditions

Transport	-25°C to +70°C, relative air humidity: max. 95 % without condensation	
Storage	-5 °C to +45 °C, relative air humidity: max. 95 % without condensation	
Use	-5 °C to +45 °C, relative air humidity: max. 95 % without condensation	

#### Dimensions

Dimensions		see drawing	
Weight	RNN5000M0x: RNN5000M1x:	gross: 0.760 kg, net: 0.648 kg gross: 0.745 kg, net: 0.633 kg	

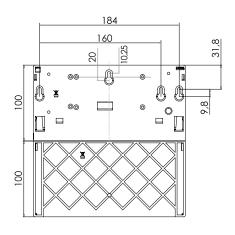
## Standards and norms

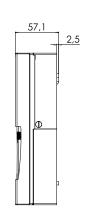
CE conformity	yes
Protection rating	IP 20
Safety class RNN5000M0x: RNN5000M1x:	
Electromagnetic compatibility	EN 301 489-1, EN 301 489-3
Type-tested and conform with	RED directive

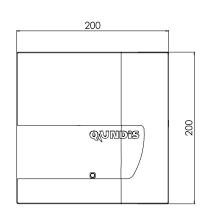


# Dimensional drawing

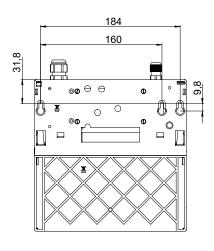
#### RNN5000M0x

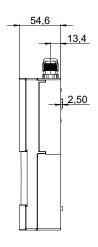


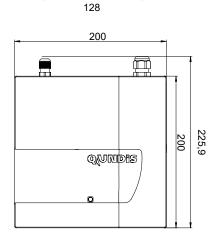




## RNN5000M1x







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