



Q gateway 5

Q gateway 5 is a high-performance device, which combines the monitoring of all metering devices and network nodes within a single property with automatic remote data transmission.

It records the consumption data of up to 2.500 measuring devices* and transmits these by GPRS / EDGE mobile transmission to the QUNDIS Smart Metering platform Q SMP. From there, all data are automatically transmitted to your office by e-mail or SSH FTP.

The device is factory-fitted with a SIM card. We manage all gateway configuration procedures via the Q SMP.

Q gateway 5 of the type RNG5N00R0x are battery-powered. There is a mains-operated version RNG5N00R1x available for daily readout.

* Details according to the description of services for Gateway Service

Functions

Q gateway 5 represents a solution that supports a fully automated, safe internet connection by means of GPRS/EDGE network and safe, bidirectional wireless networking in the intelligent counter sub-system.

Metering data storage, AMI network data, smart meter management & control, **Q gateway 5** configurations & diagnostics is realized remotely and very simply using only the web browser in your office, powered by the cloud based **Q SMP** Head end software.

Gateways of the type RNG5N00R0x achieve a service life of more than 5 years, quite simply by using high-performance batteries combined with an extremely low power consumption. Thanks to the comprehensive range of features supported, the **Q gateway 5** becomes the ultimate solution in applications and projects which require total energy autonomy.

The system contributes to a significant saving in time, effort as well as costs, and the quality of service helps to increase overall customer satisfaction.

Do everything right from your office...

Type summary

Type	Power supply
RNG5N00R0x	Battery
RNG5N00R1x	Mains power

Key features

- ▶ Wireless M-Bus 868 MHz
- ▶ Excellent ISM radio sensitivity
- ▶ Quad-band GSM/GPRS/EDGE (850, 900, 1800 and 1900 MHz)
- ▶ Safe mobile data transfer in the ISM and GSM bands
- ▶ Highest possible wireless connectivity by national and international roaming
- ▶ Automatic selection of the optimum network guarantees maximum battery service life
- ▶ Battery power supply, for 5 years (depending on set operation scenario).
- ▶ Integrated GSM & ISM antennas
- ▶ Pre-installed SIM card and self-configuration of key parameters
- ▶ Indoor wall-mount
- ▶ Tamper detection and alarming
- ▶ Simple on-site installation
- ▶ Management via Q SMP (Qundis Smart Metering Platform)

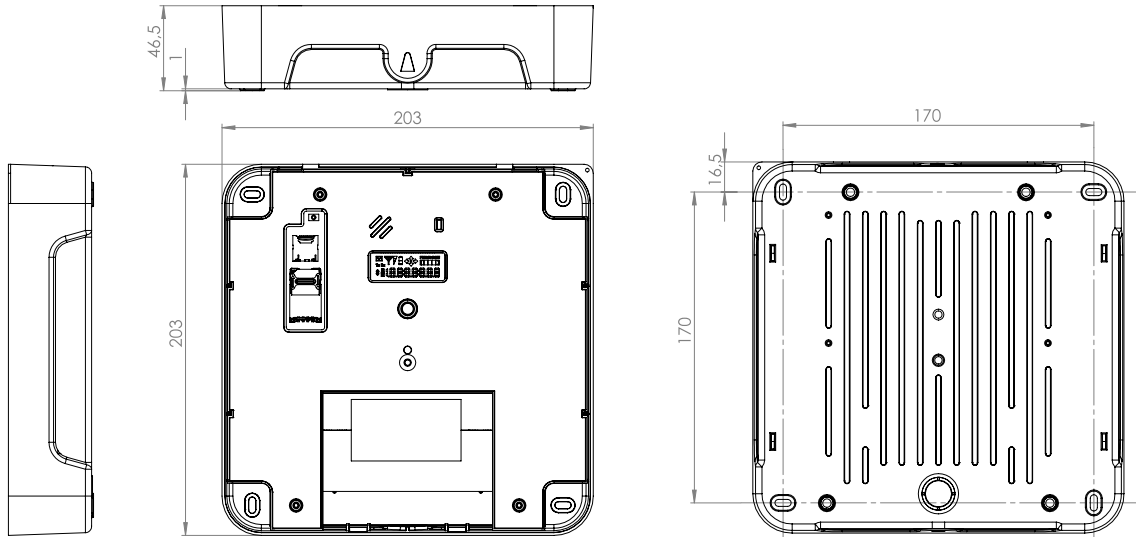
General information & user interfaces

- ▶ LCD display
- ▶ LED bi-colour optical indicator (red/green)
- ▶ Push button with cap
- ▶ SIM card holder: hinged, 8-way, SIM card detection switch
- ▶ SIM card type: mini SIM - DATA transfer enabled
- ▶ Tamper contact
- ▶ Buzzer: 4 kHz, 75 dB

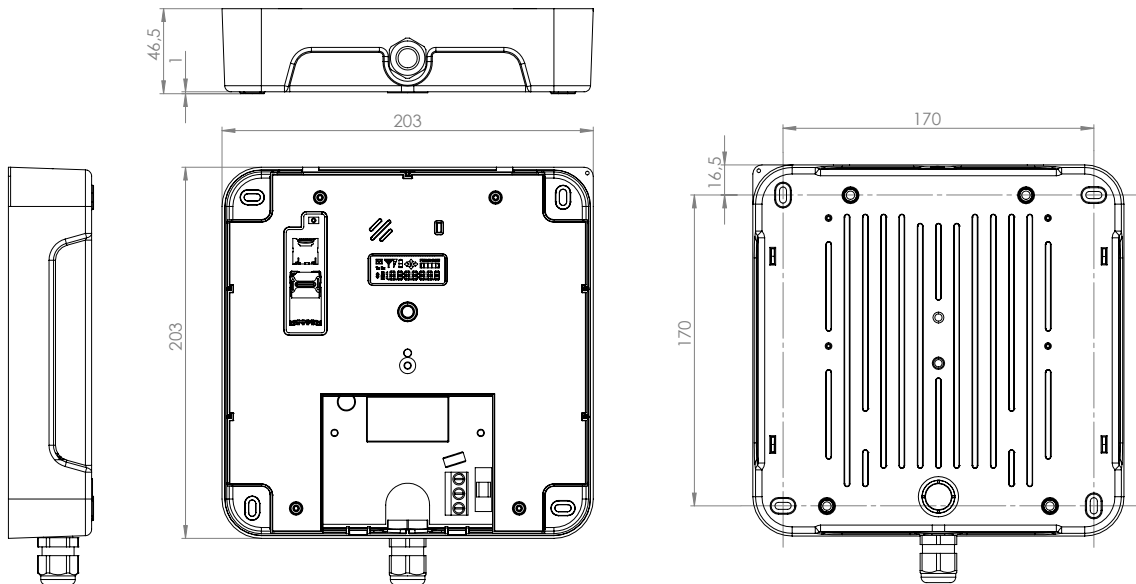
Technical data

ISM/SRD Performance	
Wireless M-Bus - supported mode	S mode (EN13757-4:2012)
Selectivity and blocking performance	at 32 K - 100K kcps baud rate: -108 dBm packet error rate: 1%
Output power	+ 14 dBm (25 mW)
RSSI signal strength measurement	yes
AES encryption	128 bit
Frequency band	(868,3 +/- 0,3) MHz
Mobile GSM/GPRS/EDGE Performance	
Frequency bands	850/900/1800/1900 MHz
GSM/DCS output power	for GSM 850 and E-GSM: Class 4 (2 W) for DCS and PCS: Class 1 (1 W)
GPRS	GPRS multi-slot class: 10, multi-slot class 12 supported PBCCH support: Yes coding schemes: CS1 to CS4
EDGE	E-GPRS multislot class: 10, multislot class 12 supported PBCCH support: Yes coding schemes: MCS5 to MCS9
GSM & ISM Antenna	Fully integrated high performance ISM and GSM antennas
Power supply and battery life time	
Type RNG5N00R0x	
Power supply	3,6 V battery, not rechargeable
Battery service life	5 years (depending on set operation scenario)
Type RNG5N00R1x	
Rated voltage	AC 100..240 V 50/60 Hz
Dimensions	
Dimensions	203 mm x 203 mm x 58 mm
Weight	RNG5N00R0x: 930 g RNG5N00R1x: 650 g
Housing	ABS + PC V1 plastic material
Installation	wall mount with 4x Ø3mm screws and dowels
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
Standards and norms	
EU Conformity	yes
Protection rating	IP 30
Safety class	RNG5N00R0x: III RNG5N00R1x: II
Electromagnetic compatibility	EN 301 489-1, EN 301 489-3, EN 301 489-7
Type approved conforming with	RED directive

Dimensional drawing type RNG5N00R0x



Dimensional drawing type RNG5N00R1x



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