



## Q gateway 5.5 direct

Q gateway 5.5 direct is the optimal solution for the simple and cost-effective changeover from Q walk-by systems to remote reading via Q AMR.

New installations can also be equipped at any time. The gateway receives data from all QUNDIS metering devices in C-mode and from WM-Bus compatible unidirectional third-party meters in the direct reception area.

A total of up to 1,000 metering devices\* can be received per gateway.

The device is factory-fitted with a SIM card. All configuration operations of the gateway can be managed via the Q SMP.

Q gateway 5.5 direct of the type RNG5 xxxT 2xxx are battery-powered. There is a mains-operated version RNG5 xxxT 1xxx available for daily readout.

In addition to the housing variant for indoor use, we also offer a housing variant for harsh environmental conditions with a higher degree of protection IP65.

\* Details according to the Gateway Service Description

## Functions

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Q gateway 5.5 direct represents a solution that supports a fully automated, safe internet connection by means of 2G/3G/4G network and safe wireless networking in the intelligent metering subsystem.

Metering data storage, smart meter management & control, Q gateway 5.5 direct 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.

Do everything right from your office.

Gateways of the type RNG5 xxxT 2xxx 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 5.5 direct 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.

## Type summary

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Type*	Power supply	Type*	Housing variant
RNG5 xxxT 2xxx	Battery	RNG5 xx2T xxxx	Indoor
RNG5 xxxT 1xxx	Mains power	RNG5 xx1T xxxx	for harsh environmental conditions

\* x = any option code

## Key features

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- ▶ Wireless M-Bus 868 MHz
- ▶ Excellent ISM radio reception sensitivity
- ▶ 2G/3G/4G mobile radio transmission
- ▶ Secure mobile data transfer via mobile radio
- ▶ Highest possible wireless connectivity by national and international roaming
- ▶ Automatic selection of the optimum network guarantees maximum battery service life
- ▶ Battery power supply, designed for up to 10 years – depending on the operating scenario, 5 years guaranteed according to terms and conditions QUNDIS Gateway-Service-Description (GSD-II valid as of 01.01.2020)
- ▶ Device-integrated GSM & ISM antennas
- ▶ Pre-installed SIM card and self-configuration of key parameters
- ▶ Indoor wall-mount
- ▶ Simple on-site installation
- ▶ Management via Q SMP (QUNDIS Smart Metering Platform)

## General information & user interfaces

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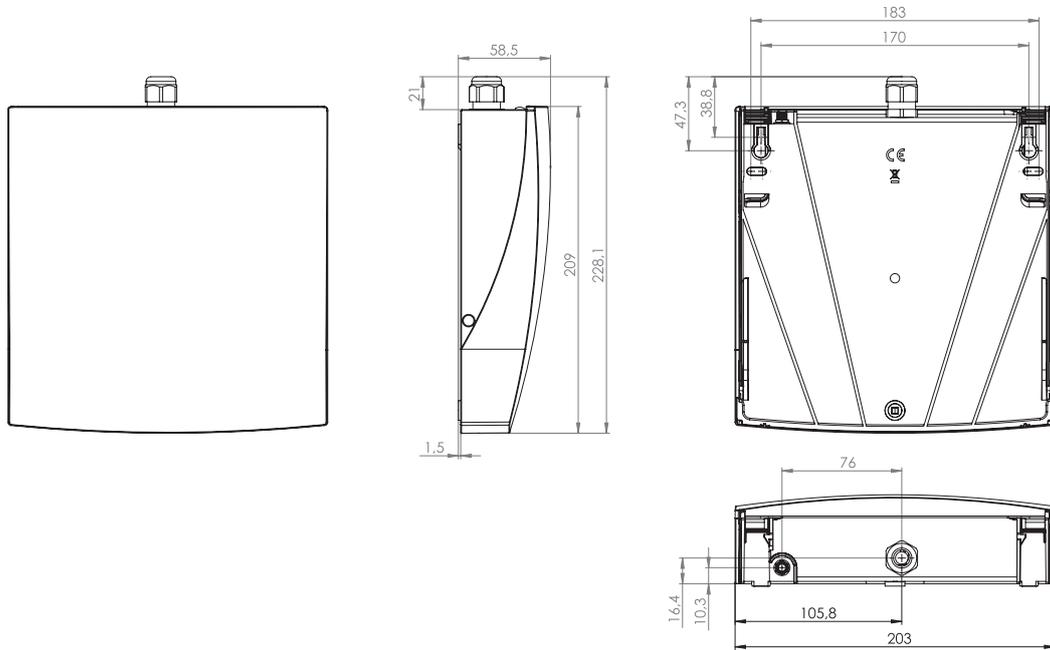
- ▶ LC display
- ▶ LED bi-colour optical indicator (red/green)
- ▶ Buzzer: 4 kHz, 75 dB

## Technical data

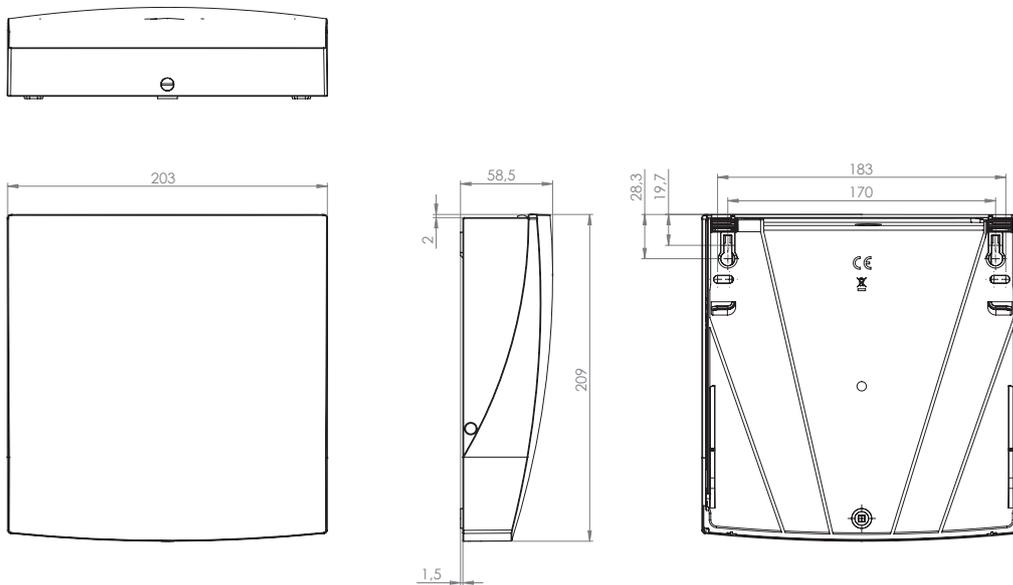
### Standards and norms

EU Conformity	
	 QUNDIS GmbH hereby declares that the Q gateway 5.5 direct complies with Directives 2014/53/EU (RED) and 2011/65/EU (RoHS). The full text of the EU Declaration of Conformity is available at the following internet address: <a href="https://qundis.com/service/downloads-and-information/eu-declaration-of-conformity/">https://qundis.com/service/downloads-and-information/eu-declaration-of-conformity/</a>
Protection rating	RNG5 xx2T xxxx RNG5 xx1T xxxx IP42 according to EN 60529 IP65 according to EN 60529
Protection class	RNG5 xxxT 2xxx RNG5 xxxT 1xxx III according to EN 61140 II according to EN 61140
Electromagnetic compatibility: Interference immunity and interference emission	EN 301 489-1, EN 3014 89-3
Security	EN 62368-1
<b>ISM Performance</b>	
Wireless M-Bus - supported mode	C/T mode (EN 13757-4)
Output power	none
RSSI signal strength measurement	yes
AES encryption	128 bit
Frequency band	(868,95 +/- 0,25) MHz
<b>2G / 3G / 4G performance</b>	
Frequency band	Maximum RF output power
2G 900 MHz; 1800 MHz	Class 4 (33 dBm +/- 2 dB)
3G 900 MHz (B8); 2100 MHz (B1)	Class 3 (24 dBm + 1/-3 dB)
4G 700 MHz (B28A); 800 MHz (B20); 900 MHz (B8); 1800 MHz (B3); 2100 MHz (B1); 2600 MHz (B7)	Class 3 (23 dBm +/- 2 dB)
GSM and ISM-antennas	Fully integrated high performance GSM- and ISM-antennas
<b>Power supply type RNG5 xxxT 2xxx</b>	
Battery type	Lithium metal (not rechargeable)
Operating voltage	3,0 V
Battery service life	Designed for up to 10 years – depending on the operating scenario, 5 years guaranteed according to terms and conditions QUNDIS Gateway-Service-Description (GSD-II valid as of 01.01.2020)
<b>Power supply type RNG5 xxxT 1xxx</b>	
Rated voltage	AC 100..240 V 50/60 Hz
<b>Material</b>	
Dimensions (WxHxD)	203 mm x 209 mm x 58,5 mm
Weight	RNG5 xxxT 2xxx 1105 g RNG5 xxxT 1xxx 691 g
Housing	Polycarbonate (PC) + ABS plastic material
Mounting material	2 dowels S6 2 Torx 20 screws 4,0 mm x 40 mm 1 seal
<b>Ambient conditions</b>	
Transport	-25 °C ... 70 °C, max. 95 % without condensation
Storage	-5 °C ... 45 °C, max. 95 % without condensation
Use	IP42: -5 °C ... 55 °C, max. 95 % without condensation IP65: -20 °C ... 55 °C, max. 95 % without condensation

## Dimensional drawing type RNG5 xxxT 1xxx



## Dimensional drawing type RNG5 xxxT 2xxx



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