Data sheet

DST2-QGWY-GB0 G5530 / 22.9.2021 - V 3.1

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

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

Type*	Power supply
RNG5 xxxT 2xxx	Battery
RNG5 xxxT 1xxx	Mains power

Type*	Housing variant
RNG5 xx2T xxxx	Indoor
RNG5 xx1T xxxx	for harsh environmental conditions

* x = any option code

Key features

- 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, for 5 years (depending on set operation scenario).
- 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)

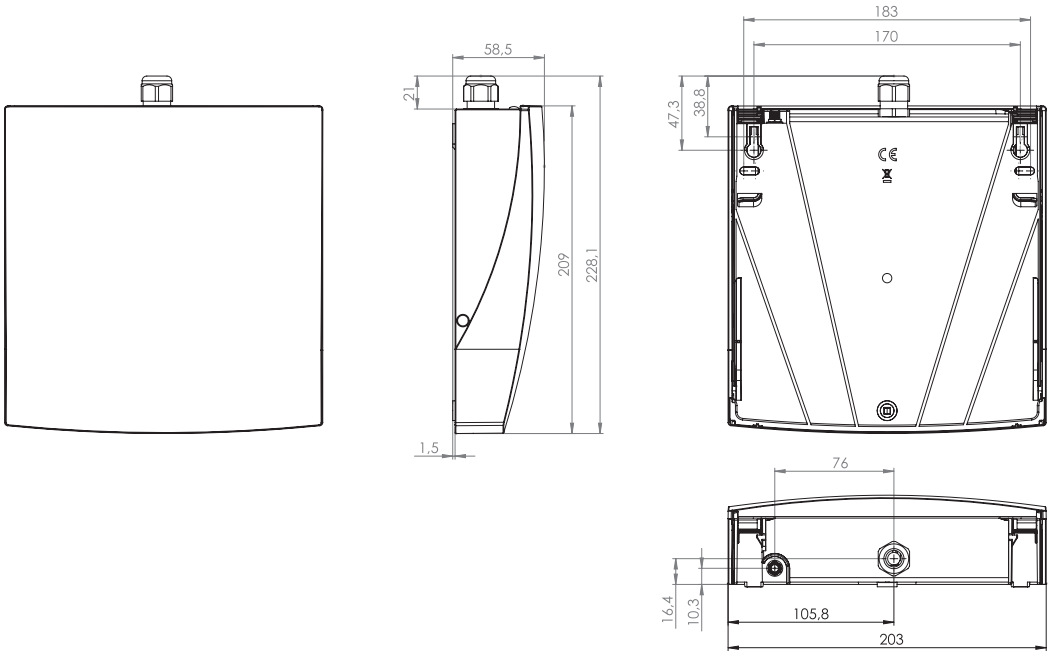
General information & user interfaces

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

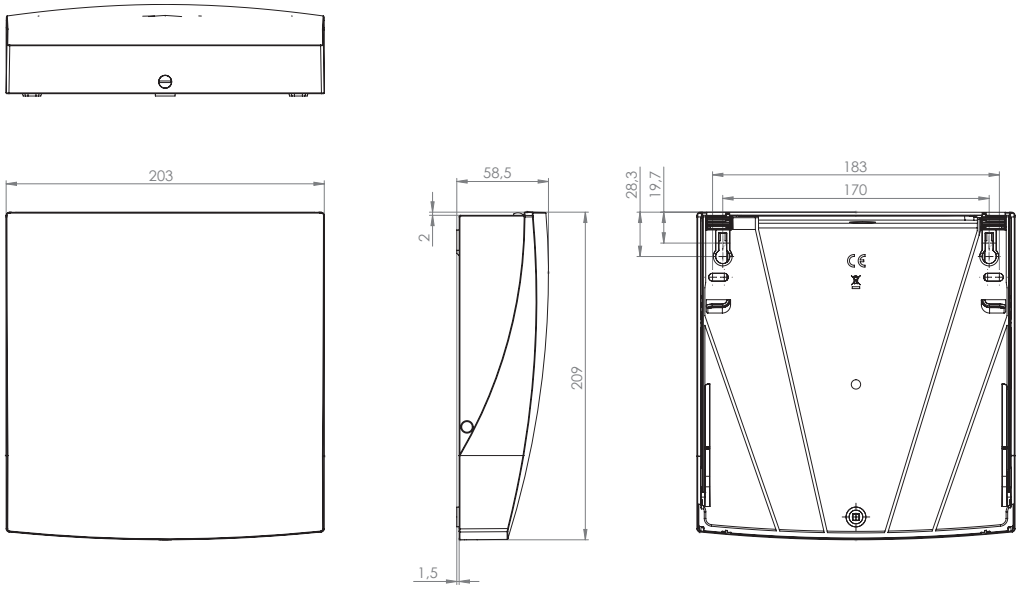
Technical data

Standards and norms		
EU Conformity		
CE		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: https://qundis.de/service/downloads-und-information/ce-erklaerungen/
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
ISM Performance		
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
2G / 3G / 4G performance		
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 & ISM Antenna		Fully integrated high performance ISM and GSM antennas
Power supply type RNG5 xxxT 2xxx		
Battery type		Lithium metal (not rechargeable)
Operating voltage		3,0 V
Battery service life		5 years (depending on the operating scenario)
Power supply type RNG5 xxxT 1xxx		
Rated voltage		AC 100..240 V 50/60 Hz
Material		
Dimensions (WxHxD)		203 mm x 209 mm x 58,5 mm
Weight	RNG5 xxxT 2xxx RNG5 xxxT 1xxx	1105 g 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
Ambient conditions		
Transport		-25 °C to +70 °C, max. 95 % without condensation
Storage		-5 °C to +45 °C, max. 95 % without condensation
Use		IP42: -5 °C to +55 °C, max. 95 % without condensation IP65: -20 °C to +55 °C, max. 95 % without condensation

Dimensional drawing type RNG5 xxxT 1xxx



Dimensional drawing type RNG5 xxxT 2xxx



QUNDIS GmbH
Sonnentor 2
99098 Erfurt/Germany
+49 (0) 361 26 280-0
+49 (0) 361 26 280-175
info@qundis.com
www.qundis.com