

RNG55-D Direct

Direct Network Gateway for AMR Systems

Application

The RNG55-D direct is the optimal solution for the simple and cost-efficient switch from Resideo walk-by systems to remote readouts via AMR.

New installations can also be equipped at any time. The gateway receives data from all Resideo metering devices in C-mode and wireless M-Bus (C and T) compatible unidirectional third-party meters in the direct reception area. A total of up to 400 metering devices can be received per gateway.

The device is factory-fitted with a SIM card including a 5 year service contract. You manage all gateway configuration procedures via the cloud based HSMP software.

RNG55-D direct of the type RNG55-D-STD are battery-powered. There is a mains-operated version RNG55-D-230V available for daily readout.

Special Features

- Wireless M-Bus 868 MHz
- Excellent ISM radio sensitivity
- 2G/3G/4G mobile transmission
- Safe mobile data transfer in the ISM and 2G/3G/4G 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).
- Device-integrated GSM & ISM antennas
- Pre-installed SIM card and self-configuration of key-parameters
- Indoor wall-mount
- Simple on-site installation
- Management via cloud based HSMP (Honeywell Home Smart Metering Platform) software



General information & User interfaces

- RNG55-D-STD: Battery power supply
- RNG55-D-230V: 230 V AC power supply
- LC display
- LED bi-colour optical indicator (red/green)
- Buzzer:
4 kHz, 75 dB

Technical Data

ISM Performance		
Wireless M -Bus - supported mode:	C/T mode (EN13757-4)	
RSSI signal strength measurement:	yes	
AES encryption:	128 bit	
Output power:	max. 14 dBm	
Frequency band:	(868,95 +/- 0,25) MHz	
Mobile 2G / 3G / 4G Performance		
Radio frequency maximum output power		
2G	900 MHz	1.800 MHz Class 4 (33 dBm +/- 2 dB)
3G	900 MHz (B8)	2.100 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)	2.600 MHz (B7) Class 3 (23 dBm +/- 2 dB)
GSM and ISM Antenna:	Fully integrated high performance ISM and GSM antennas	
Power supply and battery life time		
Type RNG55-D-STD		
Power supply:	Lithium battery 3.0 V DC with more than 5 years nominal lifetime	
Type RNG55-D-230V		
Rated voltage:	100..240 V AC 50/60 Hz	
Dimensions		
Dimensions:	203 mm x 209 mm x 58,5 mm	
Weight:	RNG55-D-STD; 867 g RNG55-D-230V; 691 g	
Housing:	ABS + PC plastic material	
Installation:	wall mount with 2x ø 4 mm screws and dowels	
Ambient conditions		
Operating:	-5 °C to + 55 °C	
Humidity:	max. 95 % without condensation	

CE Norms and Standards

EU conformity:	Yes
Protection Rating:	IP42
Protection class:	
RNG55-D-STD:	III
RNG55-D-230V:	II
Electromagnetic compatibility:	EN 301 489-1 EN 301 489-3
Safety:	EN 62 368-1 EN 62311

Fully type approved conforming with Directives 2014/53/EU (RED) and 2011/65/EU (RoHS).

Construction

Overview	Components		
	1	Cable gland	only RNG55-D-230V
	2	Connection for external GSM antenna	
	3	Drill hole for standard mounting	
	4	Alternative drilling opening (device exchange)	
	5	Battery/power supply compartment (incl. cover)	
	6	GSM antenna	
	7	SIM card holder	
	8	LED	
	9	Function keys	
	10	Display	
	11	Connector for power supply	
	12	Connector for internal power cable	only RNG55-D-230V
	13	Power supply unit	only RNG55-D-230V

Method of Operation

The RNG55-D direct 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, RNG55-D direct configurations & diagnostics is realized remotely by using the web browser in your office, powered by the cloud based HSMP software.

Gateways of the type RNG55-D-STD achieve a service life of more than 5 years, by using high-performance batteries combined with an extremely low power consumption. Thanks to the comprehensive range of features supported, the RNG55-D direct becomes the perfect 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.

Transportation and Storage

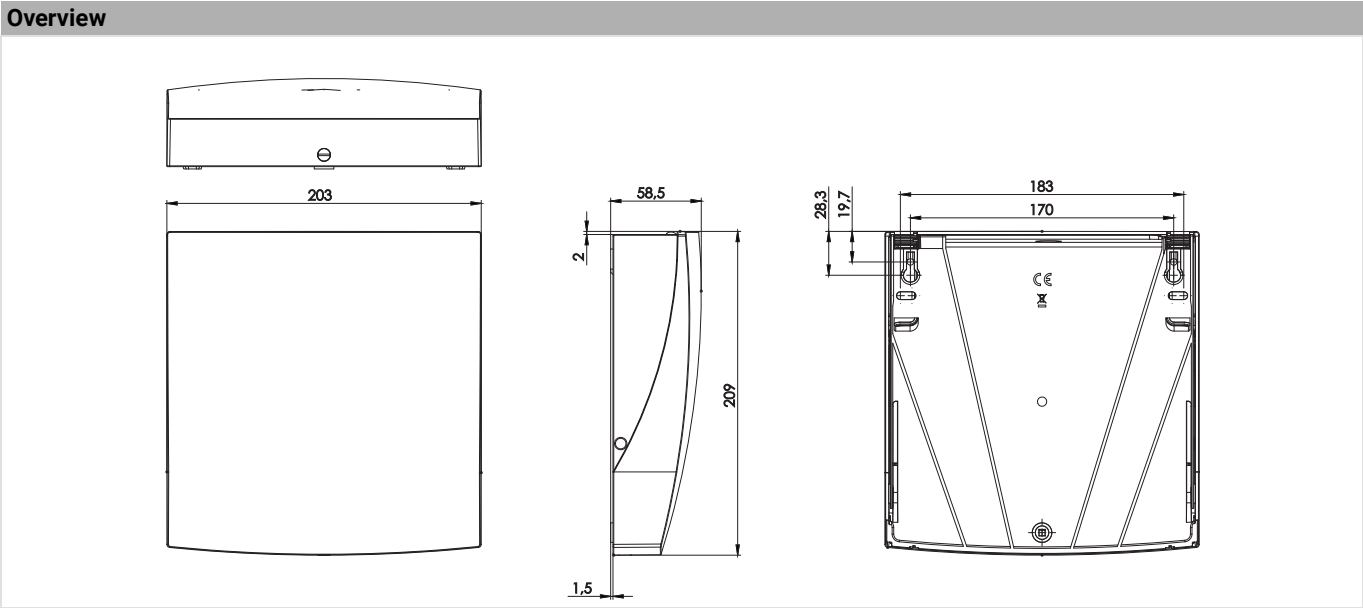
Keep parts in their original packaging and unpack them shortly before use.

The following parameters apply during transportation and storage:

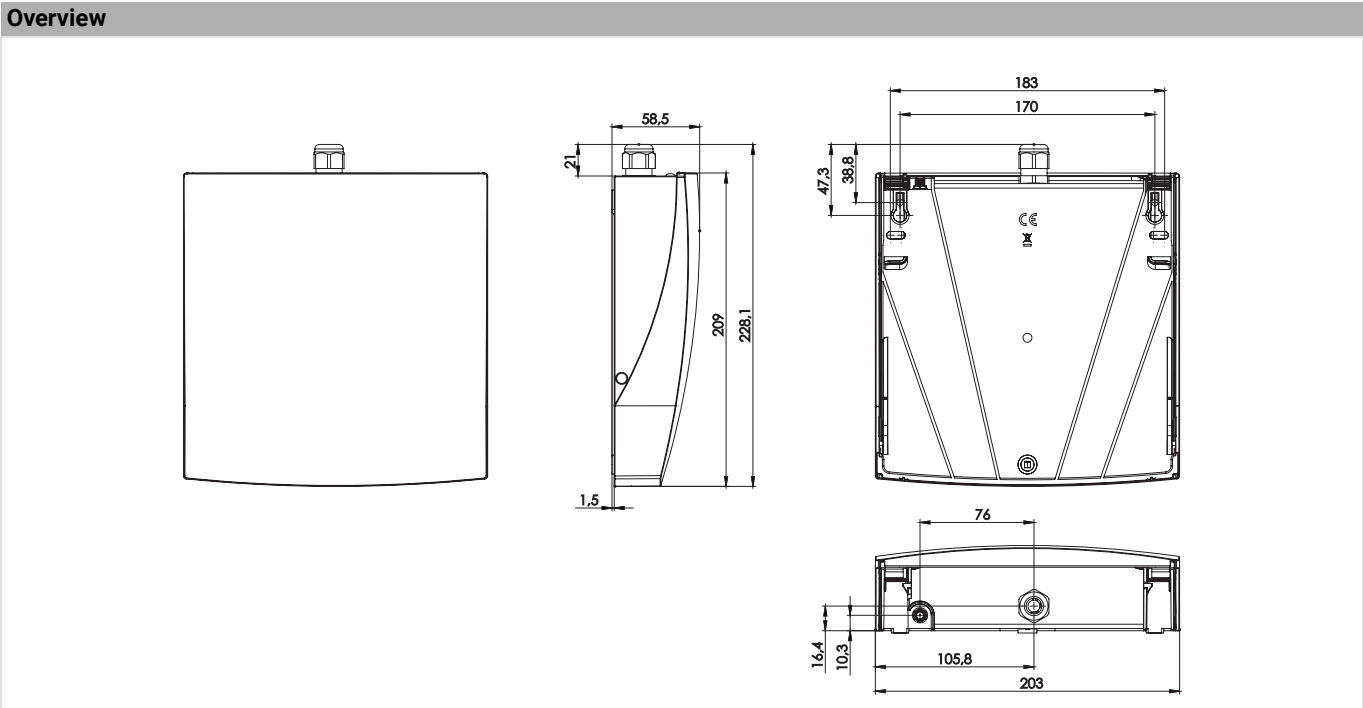
Parameter	Value
Environment:	clean, dry and dust free
Transport:	-25 °C to +70 °C
Storage:	-5 °C to +45 °C
Relative air humidity:	max. 95 % without condensation

Dimensions

RNG55-D-STD

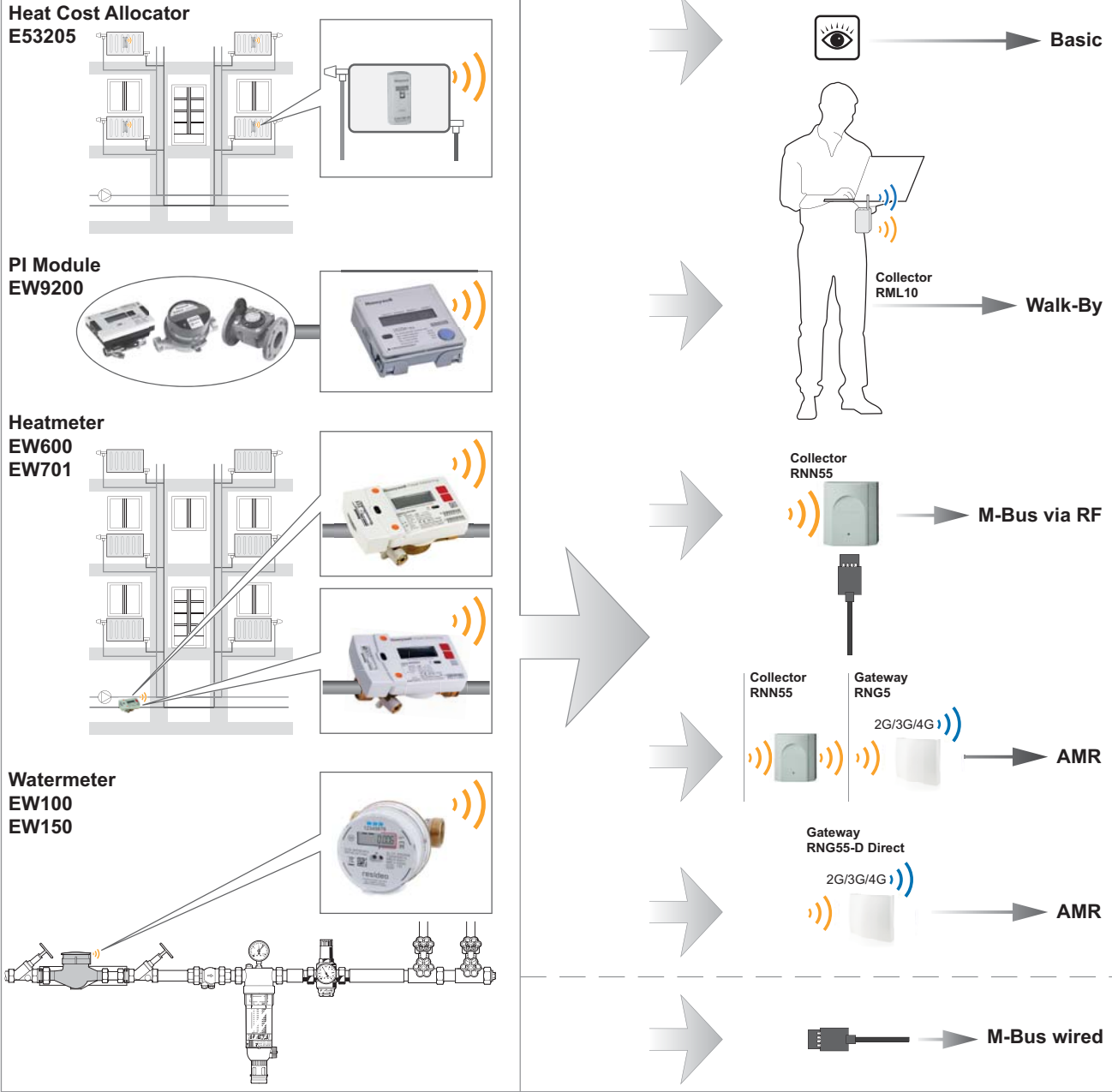


RNG55-D-230V



System Overview

The RNG55-D can be integrated into various type of system.
For further variants of systems please contact your account manager.



Ordering Information

The following tables contain all the information you need to make an order of an item of your choice.
When ordering, please always state the type, the ordering or the part number.

Options

Item No.:	Description:	EAN Code:
RNG55-D-STD	NETWORK GATEWAY 5.5 DIRECT 2G/3G/4G - STD	5059087001726
RNG55-D-230V	NETWORK GATEWAY 5.5 DIRECT 2G/3G/4G - 230V	5059087001719

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Subject to change. EN0H-0422GE23 R0724
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