



## Q module 5.5 heat

Add-on radio module for retrofitting compact heat meters of the **Qheat5** series as well as calculator units of the **R20/21** series for use in the **Qwalk-by** and **QAMR** systems.

The add-on module takes over the data from heat meters and calculator units and transmits these to a readout system. The add-on module is equipped with an optical interface for parameter setting.

## Application

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The add-on radio modules **Qmodule5.5heat** are part of the **QAMR** and **Qwalk-by** systems. They are used when heat meters of the **Qheat5** series and calculator units of the **R20/21** series are available and their data are to be recorded within one of these systems.

## Functions

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- 】 Transmission of the consumption data and due date values by radio
  - 】 Heat measurement data from the heat meter or calculator unit
  - 】 Cooling energy metering in the case of combined heat and cold metering
- 】 Readout of the heat meters takes place via an optical interface
- 】 Add-on radio module does not have its own display

## Data transmitted

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- 】 Current consumption value
- 】 Due date value
- 】 Due date
- 】 13 monthly values
- 】 Device status
- 】 Error date

## Radio features S-mode

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- 】 Increased radio capacity
- 】 Radio system – parallel transmission of Q walk-by and Q AMR data telegrams
- 】 Transmission delay (offset)  
Time delay for sending telegrams after the due date or at the beginning of the month in days (standard = 0 days)
- 】 Transmission-free day  
A maximum of 2 days from Friday, Saturday and Sunday can be defined as transmission-free days  
At least 1 day must be set (standard = Sunday).
- 】 Change from S-mode to C-mode possible in both directions

### Transmission behaviour<sup>1)</sup>

<b>Qwalk-by<sup>2)</sup></b>	<b>QAMR</b>
every 128 seconds	every 4 hours
10 hours per day (8 am - 6 pm)	24 hours per day
monthly: 4 readout days from the first of each month	7 days per week
annually: 48 hours after due date	365 days per year
current consumption values 13 statistical values	Data telegrams with statistics and consumption values

<sup>1</sup> The transmission period is always given as CET (winter time) the whole year round

<sup>2</sup> Transmission delay or transmission-free days for walk-by only available in S-mode

## Radio features C-mode

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- 】 Increased radio capacity
- 】 OMS-compliant
- 】 Radio system – parallel transmission of Q walk-by and Q AMR data telegrams
- 】 Q walk-by: 365 days per year, 10 hours per day
- 】 Q AMR: every 7.5 minutes, 24 hours per day
- 】 Change from C-mode to S-mode possible in both directions

### Transmission behaviour<sup>3)</sup>

Q walk-by <sup>4)</sup>	QAMR
every 112 seconds	every 7.5 minutes
10 hours per day (8 am - 6 pm)	24 hours per day
365 days per year	365 days per year
current consumption values 13 statistical values	current consumption values

## Parameter setting possibilities when using the service software Qsuite5<sup>5)</sup>

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- 】 Installation location as a freely usable field (numeric)
- 】 Device name / password (password protection of the devices)
- 】 Radio mode (C-mode ↔ S-mode)
- 】 Readout type (S-mode, monthly or yearly, 48 days)
- 】 Transmission delay (S-mode, Q walk-by, max. 192 days)
- 】 Transmission period (C-mode and S-mode, Q walk-by)
- 】 Transmission-free days (S-mode, Q walk-by)

## Type summary

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System	Article number
S-mode (QAMR, Q walk-by)	RHM5 00AN 0000 Zxxx x
C-mode (QAMR, Q walk-by)	RHM5 00AT 0000 Zxxx x

<sup>3</sup> The transmission period is always given as CET (winter time) the whole year round

<sup>4</sup> You need the mobile data collector Q log 5.5 and the readout software ACT46.PC for this<sup>5)</sup>

<sup>5</sup> Current software versions of ACT46.PC and Qsuite5 can be downloaded from <http://qdc.qundis.com>

## Ordering


The complete article number must be given for the order.  
On delivery, the default setting for the Qmodule5.5heat is:

	<b>C-mode</b>	<b>S-mode</b>
Due date	31.12.	31.12.
Type of readout	365 days	annually 48 days after due date
Transmission delay	none	0 days
Transmission period	8 am to 6 pm, daily	8 am to 6 pm, daily
Transmission-free days	none	Sunday

## Device combination

One Q module5.5heat per heat meter or heat/cold meter is required.

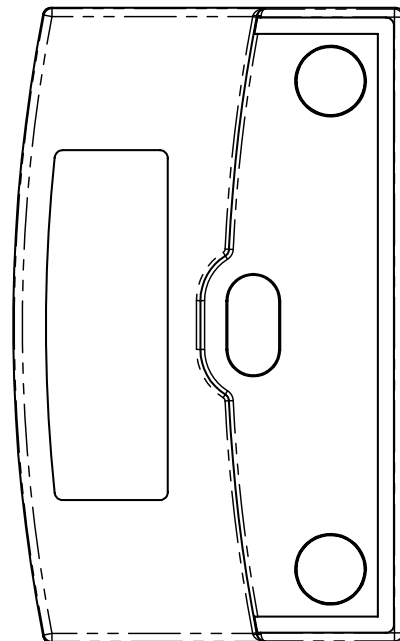
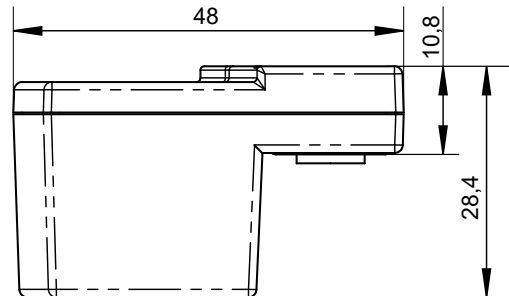
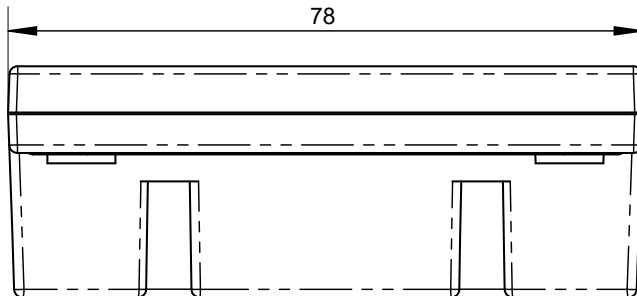
## Technical data

Standards	
	QUNDIS GmbH hereby declares that the radio system type Q module 5.5heat complies with directive 2014/53/EU. The complete text of the EU Declaration of Conformity is available at: <a href="http://www.qundis.com">www.qundis.com</a>
Environment	
Protection rating	IP65
Protection class	III
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 +55 °C, relative air humidity: max. 95 % without condensation
Electromagnetic compatibility	
Interference resistance	EN 301489-1, EN 301489-3
Emitted interference	EN 301489-1, EN 301489-3, EN 55032
Security of IT equipment	EN 60950, EN 62368-1
Radio	
Radio mode	S-mode (QAMR, Q walk-by) C-mode (QAMR, Q walk-by)
Radio frequency	S-mode (868.3 +/- 0.3) MHz C-mode (868.95 +/- 0.25) MHz
Transmission power	max. 10 dBm
Supply	
Battery type	Lithium metal
Operating voltage	DC 3 V
Battery service life <sup>6)</sup>	11 years + 6 months reserve

<sup>6</sup> The battery life of the compact heat meter sets (Q heat 5 with factory pre-assembled Q module 5.5 heat) is 6 years.

## Dimensional drawing

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