Siemens meters and metering solutions

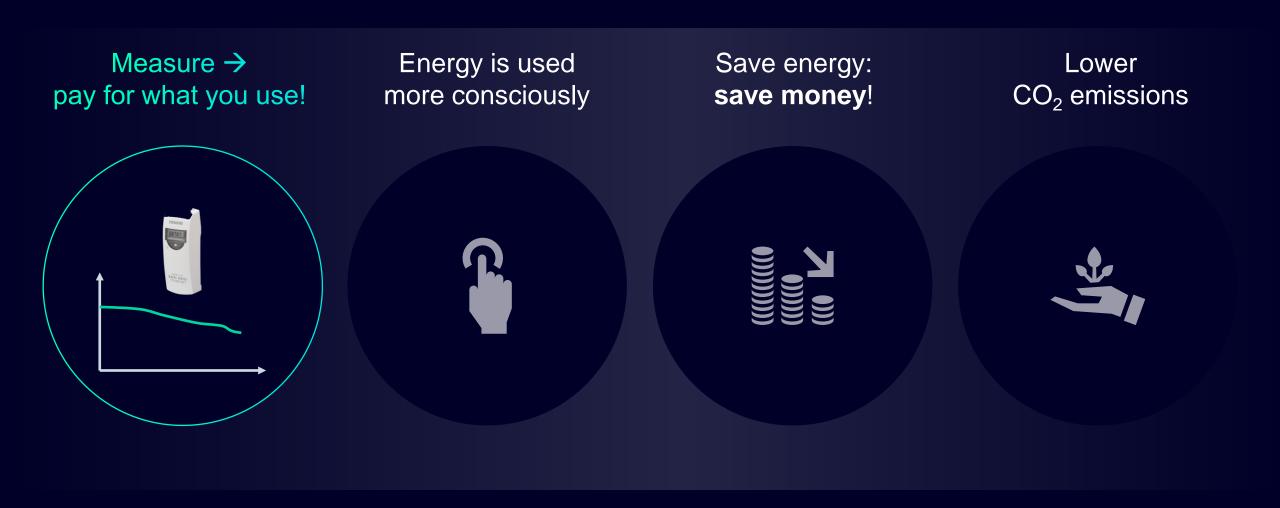
October 2022



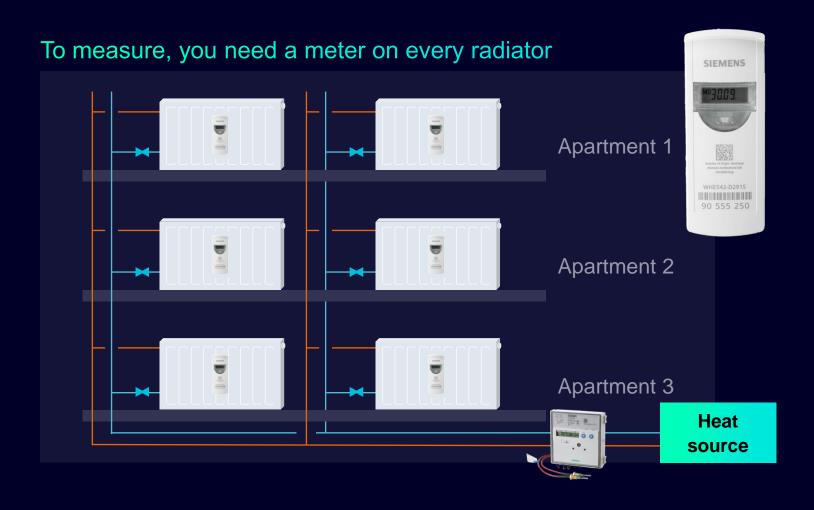




Why use meters?



Heat cost allocators For vertical heating pipes



Highlights

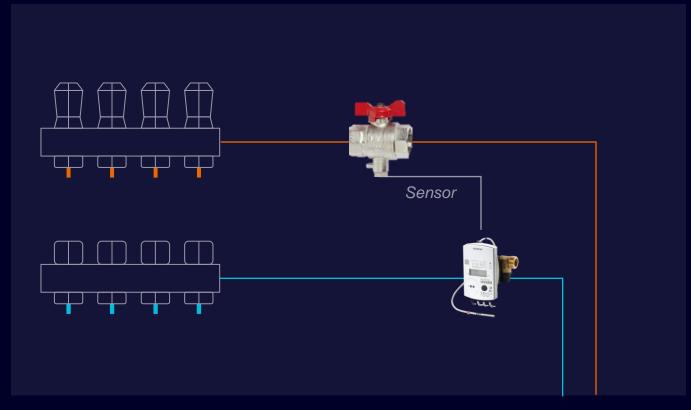
Tenant pays only for what they use

Maintenance-free; 10 years

No need to enter apartment

Heat metersFor horizontal heating pipes

Horizontal hydraulic system (apartment by apartment)



Highlights

Only one meter per apartment

Tenant pays only for what they use

Measuring devicesPortfolio

Water

Mechanical & Electronic WF.30.../WF.240.../WF.636...

Heat and cooling energy

Impeller type WF.5.../WF.6...

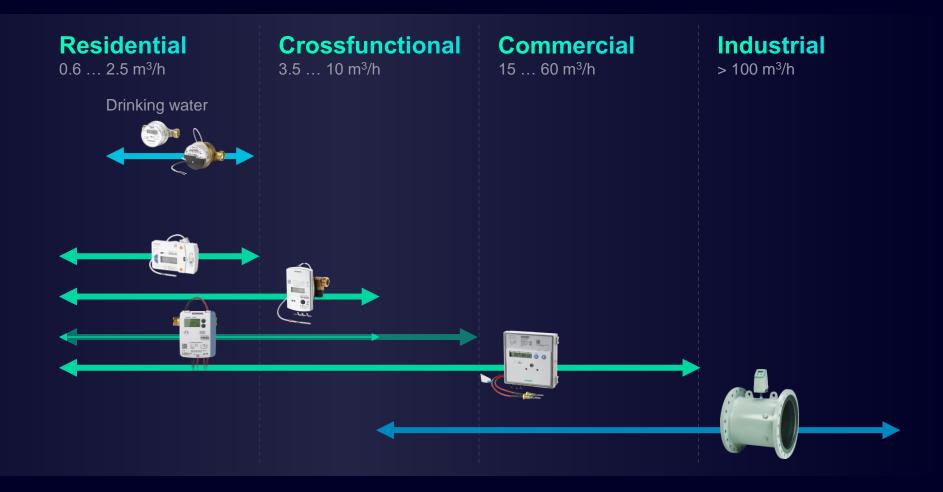
Ultrasonic types: WS.5.../WS.6...

WS.8...

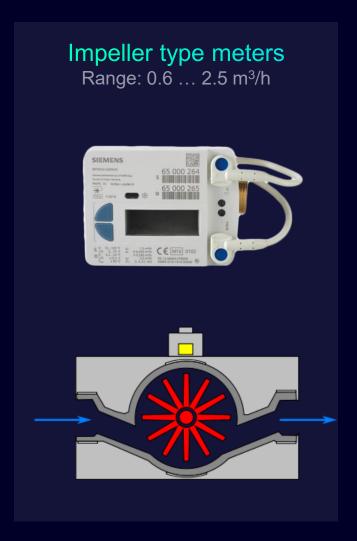
UH50...



SITRANS



Heat meters Portfolio





Ultrasonic Heat Meters

are more expensive but ...

... they have advantages

Less soiling (due to dirt particles in heating water)

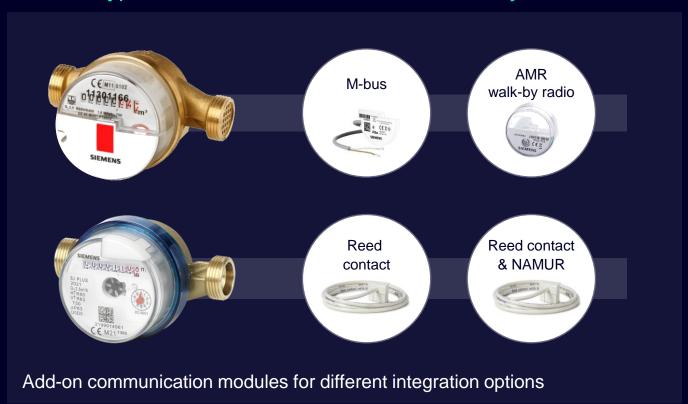
Greater measurement range: 0.6 ...150 m³/h

Lower pressure drop → lower operating cost

So, ultrasonic heat meters are more expensive but have a lower through life cost

Water meters Communication modules

The mechanical water meters can be equipped with different types of communication modules at any time



1 E.g., Use a magnet to stop the impeller, but water still flows

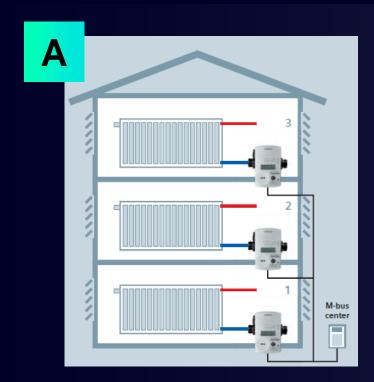
Highlights

Flexible integration options

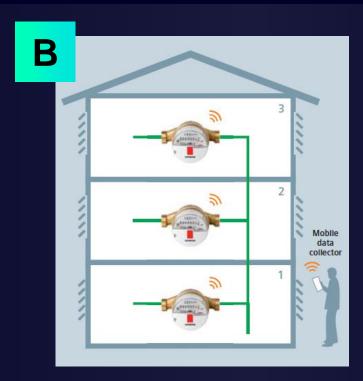
Transparent billing

Tamper-proof¹

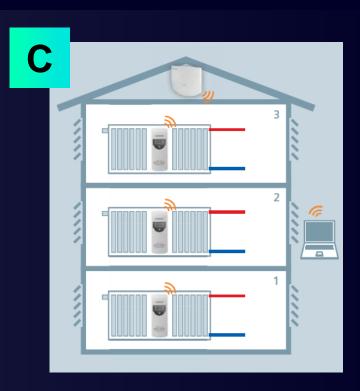
CommunicationTypes



M-bus: Data collection via the M-bus Master using a two-wire bus



Walk-by: Radio retrieval with a mobile data collector

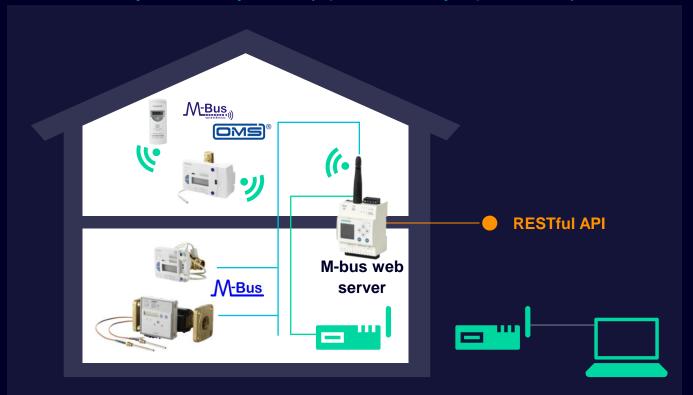


AMR: Automatic Meter Reading from remote location, using data collector fitted on-site

Communication

Remote readout at any time via M-bus master

Horizontal hydraulic system (apartment by apartment)



Highlights

M-bus wired and radio (RF)

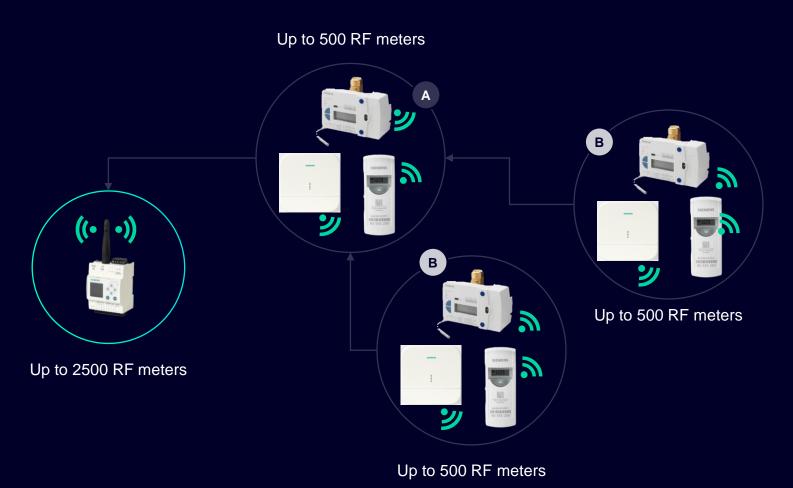
Easy commissioning and readout

Up to 500 M-bus wired meters can be connected to an M-bus web server

Up to 2'500 M-bus RF meters can be connected to an M-bus web server

RESTful API

Communication – Remote readout at any time via M-bus master with Radio MESH network



Every RF converter collects the consumption values of a max. of **500 wireless meters**.

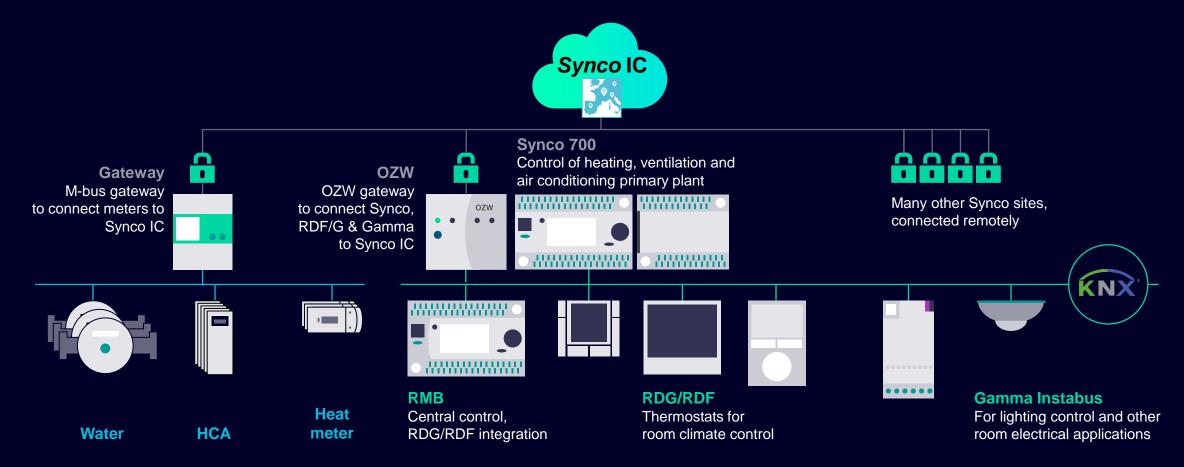
A RF converter works as a repeater for another RF converter.

Up to 2'500 RF meters and 23 RF convert-ers can be handled by one web server.

A is the repeater for B

Synco IC with Energy Monitoring

Combined metering and remote HVAC plant operation enables Facility Managers continually to reduce energy



Benefit

Complete metering solutions from Siemens

Water meters Heat cost allocators **Data collectors and Software** Ultrasonic meters Impeller type meters

Highlights

All products and software tools needed for a complete metering solution.

Benefit



Short delivery times

Very **short lead times**.

High level of availability of products thanks to good **stock management**.

Benefit

Siemens your competent partner for quality and service

Investment protection

due to long product life and very low failure rate



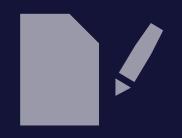
Low risk

as Siemens supports on-site for planning and implementation



Future-proof technology

as Siemens leads in international standardization



Supplier independent

as Siemens uses Open standards



Benefit – Complete offering from Siemens Single source supplier

Building autom. system



Primary & room controllers



Room electrical



Thermostats



Sensors (primary & room)



Valves and actuators



Damper actuators



Meters



All metering and HVAC control products from a single source > One contact; one warranty partner