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Технические характеристики

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10_B SHORTY METERING SYSTEM

INSTALLATION COMPONENTS



6502C01

Pre-installation metal housing for "SHORTY STATIC" system. Setup stubs included.

DESCRIPTION

- Galvanized steel housing complete with painted frame and cover white RAL 9010
- Dimensions (WxHxD) 500 x 420 x 120 ÷ 170 mm
- Shut-off ball valves for heating/cooling circuit with 3/4" M and 1" F fittings with idle nut
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for system testing and/or wash and subsequent installation of domestic water meters 110 mm interaxle DN15 (3/4")/ SHORTY metering module
- Galvanized steel templates for fixing the valves shut-off to the bottom of the housing

Code	Dimensions (mm)	Price €	Unit/Box
650 0279	500 x 420 x 120 ÷ 170		1/1




6502C01-3C

Pre-installation metal housing for "STATIC SHORTY AND THREE DOMESTIC WATER LINES" system. Pre-set stubs included.

DESCRIPTION

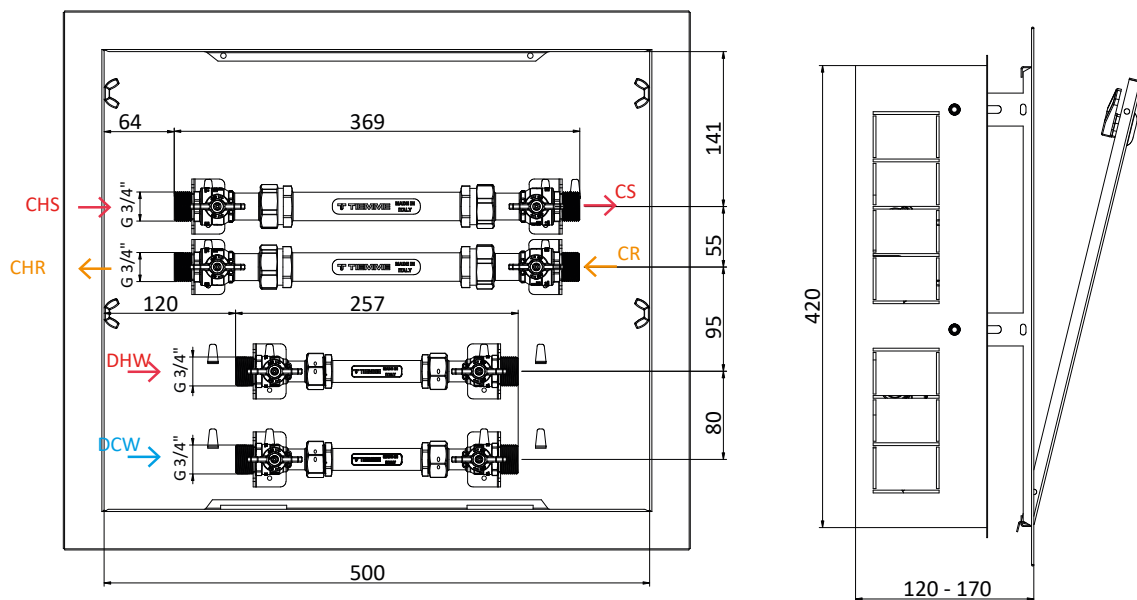
- Galvanized steel housing complete with painted frame and cover white RAL 9010
- Dimensions (WxHxD) 500 x 500 x 120 ÷ 170 mm
- Shut-off ball valves for heating/cooling circuit with connections 3/4" M and 1" F with idle nut
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for system testing and/or wash and subsequent installation of domestic water meters 110 mm interaxle DN15 (3/4")/ SHORTY metering module
- Galvanized steel templates for fixing the valves shut-off to the bottom of the housing

 3 domestic water lines

Code	Dimensions (mm)	Price €	Unit/Box
650 0618	500 x 500 x 120 ÷ 170		1/1

6502C01

DIMENSIONAL DIAGRAM FUNCTIONAL DIAGRAM



Abbreviation	Description	Abbreviation	Description
CHS	Central heating supply	CR	Consumer return
CHR	Central heating return	DHW	Domestic hot water
CS	Consumer supply	DCW	Domestic cold water



6502C01DUO

Pre-installation metal housing for "SHORTY DUO STATIC" system. Pre-set stubs included.

DESCRIPTION

- Galvanized steel housing complete with painted frame and cover white RAL 9010
- Dimensions (WxHxD) 500 x 800 x 120 ÷ 170 mm
- Shut-off ball valves for heating/cooling circuit with connections 3/4" M and 1" F with idle nut
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for system testing and/or wash and subsequent installation of domestic water meters 110 mm interaxle DN15 (3/4")/ SHORTY metering module
- Galvanized steel templates for fixing the valves shut-off to the bottom of the housing



Compact solution for 2 utilities

Code	Dimensions (mm)	Price €	Unit/Box
650 0286	500 x 800 x 120 ÷ 170		1/1



6502C01TRIO

Pre-installation metal housing for "SHORTY TRIO STATIC" system. Pre-set stubs included.

DESCRIPTION

- Galvanized steel housing complete with painted frame and cover in white RAL 9010
- Dimensions (WxHxD) 500 x 1200 x 120 ÷ 170 mm
- Shut-off ball valves for heating/cooling circuit with connections 3/4" M and 1" F with idle nut
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for system testing and/or wash and subsequent installation of domestic water meters 110 mm interaxle DN15 (3/4")/ SHORTY metering module
- Galvanized steel templates for fixing the valves shut-off to the bottom of the housing



Compact solution for 3 utilities

Code	Dimensions (mm)	Price €	Unit/Box
650 0287	500 x 1200 x 120 ÷ 170		1/1



6502C01DUO-3C

Pre-installation metal housing for "SHORTY DUO STATIC AND THREE DOMESTIC WATER LINES" system. Pre-set stubs included.

DESCRIPTION

- Galvanized steel housing complete with painted frame and cover in white RAL 9010
- Dimensions (WxHxD) 500 x 980 x 120 ÷ 170 mm
- Shut-off ball valves for heating/cooling circuit with connections 3/4" M and 1" F with idle nut
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for system testing and/or wash and subsequent installation of domestic water meters 110 mm interaxle DN15 (3/4")/ SHORTY metering module
- Galvanized steel templates for fixing the valves shut-off to the bottom of the housing



3 domestic water lines



Compact solution for 2 utilities

Code	Dimensions (mm)	Price €	Unit/Box
650 0619	500 x 980 x 120 ÷ 170		1/1



6502C01TRIO-3C

Pre-installation metal housing for "SHORTY TRIO STATIC AND DOMESTIC WATER LINES" system. Predisposition stubs included.

DESCRIPTION

- Galvanized steel housing complete with painted frame and cover in white RAL 9010
- Dimensions (WxHxD) 500 x 1450 x 120 ÷ 170 mm
- Shut-off ball valves for heating/cooling circuit with connections 3/4" M and 1" F with idle nut
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for system testing and/or wash and subsequent installation of domestic water meters 110 mm interaxle DN15 (3/4")/ SHORTY metering module
- Galvanized steel templates for fixing the valves shut-off to the bottom of the housing



3 domestic water lines



Compact solution for 3 utilities

Code	Dimensions (mm)	Price €	Unit/Box
650 0620	500 x 1450 x 120 ÷ 170		1/1



6502KP

"SHORTY" System wall mount pre-installation kit. Pre-set stubs included.

DESCRIPTION

- Shut-off ball valves for heating/cooling circuit with 3/4" M and 1" F fittings with idle nut
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for system testing and/or wash and subsequent installation of domestic water meters 110 mm interaxle DN15 (3/4")/ SHORTY metering module
- Galvanized steel templates for fixing the valves shut-off to the bottom of the housing

 For possible third domestic water line metering according to art. 6502LS

Code	Dimensions (mm)	Price €	Unit/Box
650 0581	-		1/1



6502LS

Hot water/cold water domestic water lines without meter.



DESCRIPTION

- Shut-off ball valves with 3/4" M E ports 3/4" F with idle nut (with or without integrated non-return valve)
- "Pre-installation" stub for testing and/or flushing system and subsequent installation of the domestic water meter 110 mm interaxle DN15 (3/4")
- Flat washers
- Galvanized steel supports for fixing shut-off valves to the bottom of the housing

Code	Type	Price €	Unit/Box
 red handle			
650 0601	DN15 domestic hot water		1/1
 blue handle			
650 0602	DN15 domestic cold water		1/1



6502G03

"SHORTY" compact heat meter metering module, 3-way motorized zone valve for heating/cooling systems.



DESCRIPTION

- 3-way zone valve with motorized bypass (230 VAC or 24 VAC power supply)
- Differential bypass tee
- Supply temperature probe holder fitting with M10x1 port
- Impurity-removing filter
- Static balance valve
- Compact calorie/frigory meter 130 mm DN20 (1") Qp = 2.5 m³/h complete with electronic unit and 2x Ø5 mm probes

Code	Type	Power supply	Price €	Unit/Box
650 0280	Local reading	230 VAC		1/1
650 0399	Local reading	24 VAC		1/1
650 0281	M-Bus reading	230 VAC		1/1
650 0400	M-Bus reading	24 VAC		1/1
650 0545	Wireless reading	230 VAC		1/1
650 0586	Wireless reading	24 VAC		1/1



6502G03U

"SHORTY" metering module consisting of compact ULTRASONIC calorie counter 3-way motorized zone valve for heating/cooling systems.



DESCRIPTION

- 3-way zone valve with motorized bypass (230 VAC or 24 VAC power supply)
- Differential bypass tee
- Supply temperature probe holder fitting with M10x1 port
- Impurity-removing filter
- Static balancing valve
- Compact ultrasonic calorie/frigory meter 130 mm (1") interaxle DN20 Qp = 2.5 m³/h with electronic unit and 2x Ø5 mm probes

Code	Type	Power supply	Price €	Unit/Box
650 0582	Local reading	230 VAC		1/1
650 0583	Local reading	24 VAC		1/1
650 0585	M-Bus reading	230 VAC		1/1
650 0584	M-Bus reading	24 VAC		1/1
650 0587	Wireless reading	230 VAC		1/1
650 0588	Wireless reading	24 VAC		1/1



6561C

Single jet meter for hot or cold water with local or remote M-Bus reading.



TECHNICAL SPECIFICATIONS

- Brass casing with direct reading on 8 numbered rollers: 5 (black) for cubic meters – 3 (red) for sub-multiples
- Maximum operating temperature:
 - 50 °C (domestic cold water model)
 - 90 °C (domestic hot water model)
- Nominal pressure (PN) 16 bar
- Certified according to Directive 2014/32/EU (Annex MI-001)

i For installation on horizontal or vertical pipes

i Prearranged for remote reading if combined with art. 6561E

Code	Size	Type	Price €	Unit/Box
651 0024	DN15 (3/4")* Q3 = 2.5 m³/h	domestic cold water		1/12
651 0026	DN15 (3/4")* Q3 = 2.5 m³/h	domestic hot water		1/12

* Size of thread body



6561E

Pulse launcher cable. 1/10 pulse/liter.



TECHNICAL SPECIFICATIONS

- Cable length: 1 m

Code	Type	Price €	Unit/Box
651 0085	For 6561C		1/10



6561CR 6561HR

Single jet meter for hot or cold water with local or wireless remote reading



TECHNICAL SPECIFICATIONS

- Brass casing with direct reading on 8 numbered rollers: 5 (black) for cubic meters – 3 (red) for sub-multiples
- Maximum operating temperature:
 - 50 °C (domestic cold water model)
 - 90 °C (domestic hot water model)
- Nominal pressure (PN) 16 bar
- Approved in accordance with Directive 2014/32/EU (Annex MI-001)

i For installation on horizontal or vertical pipes

i Prearranged for wireless data transmission when combined with art. 6561MR

Code	Size	Type	Price €	Unit/Box
651 0484	DN15 (3/4")* Q3 = 2.5 m³/h	domestic cold water		1/12
651 0514	DN15 (3/4")* Q3 = 2.5 m³/h	domestic hot water		1/12

* Size of thread body



6561MR

Compact radio module with integrated 868 MHz WIRELESS M-Bus inductive wireless sensor.



TECHNICAL SPECIFICATIONS

- Power supply: lithium battery, service life 11+1 years
- Protection rating: IP67

Code	Type	Price €	Unit/Box
651 0486	For 6561CR - 6561HR		1/40



6502K

Fixing kit components for "SHORTY" and "SHORTY DYNAMIC" metering modules

DESCRIPTION

- Shut-off ball valves for heating/cooling circuit with 3/4" M and 1" F fittings with idle nut
- Shut-off ball valves for domestic hot/cold water line with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- Flat washers
- Galvanized steel supports for fixing shut-off valves to the bottom of the housing

Code	Type	Price €	Unit/Box
650 0301	SHORTY/SHORTY DYNAMIC		1/4



6502T

Temporary stubs for "SHORTY" pre-installation housing.

TECHNICAL SPECIFICATIONS

- Interaxle 194 mm (for SHORTY metering module)
- Interaxle 110 mm (for domestic water meters)

i To be used for flushing and/or hydraulic testing of the system

Code	Type	Price €	Unit/Box
651 0284	SHORTY		1/10



6502I

Thermoformed thermal insulation for "SHORTY" metering modules

TECHNICAL SPECIFICATIONS

- Insulation shell material: PEX closed cell foam

Code	Type	Price €	Unit/Box
650 0284	SHORTY		1/1

10_B SHORTY DYNAMIC METERING SYSTEM

INTRODUCTION

Metering module for heating/cooling and domestic water circuits, featuring **reduced proportions**. Ideal system solution where space is limited and for flow rates up to 2.5 m³/h.

Fitted with a dynamic balancing PICV (Pressure Independent Control Valves), the system-side flow rate can be adjusted from a minimum of 529 l/h to a maximum of 1470 l/h. Even in the face of flow variations due to the opening/closing by the individual utilities on the branches of the system, the PICV valve operates by keeping the set flow rate constant, avoiding both hydraulic imbalances and discomfort and energy consumption issues.

Available in different versions and configurations to meet various installation needs:

- Available with 3 domestic water lines.
- Available on request; module housed in flush-mounted casing or version with metal clamps for mounting the module to the wall.
- Multi-utility housing available: Serving 2 or 3 adjacent utilities, thus creating a single, easy point of access to metering devices.

The core of Shorty Dynamic modules is the hydraulic unit that may be installed within the housing, which ordered separately according to usage reading requirements. The multi-function unit means calorie and frigory consumption can be read in local mode via the LCD reader display, as well as in remote M-Bus or wireless mode. Also available in volumetric or ultrasonic heat meter versions to meet the most demanding requirements, ultrasonic -based flow rate measurement means greater precision in consumption counting and increased wear resistance due to lack of moving parts.



1. Shut-off valves
2. Motorized 3-way zone valve
3. Control bypass
4. Heating-cooling system flow rate control valve
5. Impurity-trapping filter with flow probe holder
6. Dynamic balancing valve

7. Metal housing complete with cover and supports
8. Compact thermal energy meter
9. Domestic hot water meter
10. Domestic cold water meter

10_B SHORTY DYNAMIC METERING SYSTEM

INSTALLATION COMPONENTS



6502C01DYN

Pre-installation metal housing for "SHORTY DYNAMIC" system. Setup stubs included.

DESCRIPTION

- Galvanized steel housing complete with painted frame and cover in white RAL 9010
- Dimensions (WxHxD) 500 x 420 x 120 ÷ 170 mm
- Shut-off ball valves for heating/cooling circuit with 3/4" M and 1" F fittings with idle nut
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for testing and/or flushing system and subsequent installation of domestic water meters 110 mm interaxle DN15 (3/4")/ SHORTY DYNAMIC metering module
- Galvanized steel templates for fixing shut-off valves to the bottom of the housing

Code	Dimensions (mm)	Price €	Unit/Box
650 0604	500 x 420 x 120 ÷ 170		1/1




6502C01DYN-3C

Pre-installation metal housing for "SHORTY DYNAMIC AND THREE DOMESTIC WATER LINES" system. Setup stubs included.

DESCRIPTION

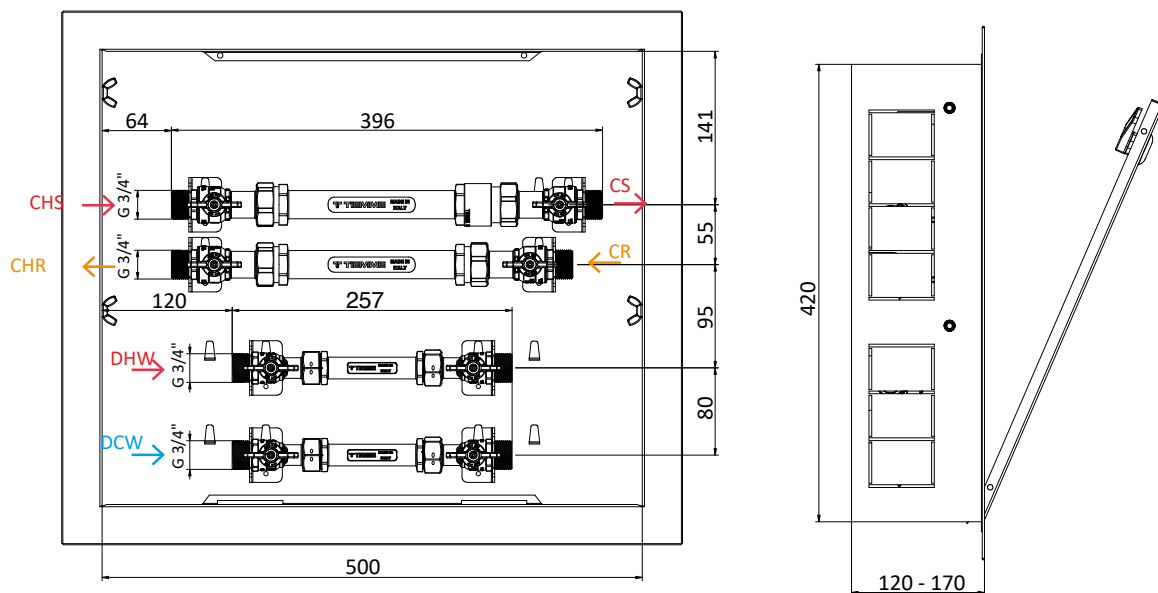
- Galvanized steel housing complete with painted frame and cover in white RAL 9010
- Dimensions (WxHxD) 500 x 500 x 120 ÷ 170 mm
- Shut-off ball valves for heating/cooling circuit with 3/4" M and 1" F fittings with idle nut
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for testing and/or flushing system and subsequent installation of 110 mm (3/4") interaxle DN15/ SHORTY DYNAMIC metering module
- Galvanized steel templates for fixing the valves shut-off to the bottom of the housing

 3 domestic water lines

Code	Dimensions (mm)	Price €	Unit/Box
650 0621	500 x 500 x 120 ÷ 170		1/1

6502C01DYN

DIMENSIONAL DIAGRAM FUNCTIONAL DIAGRAM



Abbreviation	Description
CHS	Central heating supply
CHR	Central heating return
CS	Consumer supply

Abbreviation	Description
CR	Consumer return
DHW	Domestic hot water
DCW	Domestic cold water

10_B SHORTY DYNAMIC METERING SYSTEM

INSTALLATION COMPONENTS



6502C01DUODYN

Pre-installation metal housing for "SHORTY DUO DYNAMIC" system. Setup stubs included.

DESCRIPTION

- Galvanized steel housing complete with painted frame and cover in white RAL 9010
- Dimensions (WxHxD) 500 x 800 x 120 ÷ 170 mm
- Shut-off ball valves for heating/cooling circuit with 3/4" M and 1" F fittings with idle nut
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for testing and/or flushing system and subsequent installation of domestic water meters 110 mm interaxle DN15 (3/4")/ SHORTY DYNAMIC metering module
- Galvanized steel templates for fixing shut-off valves to the bottom of the housing

 Compact solution for 2 utilities

Code	Dimensions (mm)	Price €	Unit/Box
650 0608	500 x 800 x 120 ÷ 170		1/1



6502C01TRIODYN

Pre-installation metal housing for "SHORTY TRIO DYNAMIC" system. Setup stubs included.

DESCRIPTION

- Galvanized steel housing complete with painted frame and cover in white RAL 9010
- Dimensions (WxHxD) 500 x 1200 x 120 ÷ 170 mm
- Shut-off ball valves for heating/cooling circuit with 3/4" M and 1" F fittings with idle nut
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "pre-installation" stubs for testing and/or flushing system and subsequent installation of domestic water meter 110 mm interaxle DN15 (3/4")/ SHORTY DYNAMIC metering module
- Galvanized steel templates for fixing the valves shut-off to the bottom of the housing

 Compact solution for 3 utilities

Code	Dimensions (mm)	Price €	Unit/Box
650 0609	500 x 1200 x 120 ÷ 170		1/1



6502C01DUODYN-3C

Pre-installation metal housing for "SHORTY DUO DYNAMIC AND THREE DOMESTIC WATER LINES" system. Setup stubs included.

DESCRIPTION

- Galvanized steel housing complete with painted frame and cover in white RAL 9010
- Dimensions (WxHxD) 500 x 980 x 120 ÷ 170 mm
- Shut-off ball valves for heating/cooling circuit with 3/4" M and 1" F fittings with idle nut
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for testing and/or flushing system and subsequent installation of domestic water meters 110 mm interaxle DN15 (3/4")/ SHORTY DYNAMIC metering module
- Galvanized steel templates for fixing the valves shut-off to the bottom of the housing

 3 domestic water lines

 Compact solution for 2 utilities

Code	Dimensions (mm)	Price €	Unit/Box
650 0622	500 x 980 x 120 ÷ 170		1/1



6502C01TRIODYN-3C

Pre-installation metal housing for "SHORTY TRIO DYNAMIC AND THREE DOMESTIC WATER LINES" system. Setup stubs included.

DESCRIPTION

- Galvanized steel housing complete with painted frame and cover in white RAL 9010
- Dimensions (WxHxD) 500 x 1450 x 120 ÷ 170 mm
- Shut-off ball valves for heating/cooling circuit with 3/4" M and 1" F fittings with idle nut
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for testing and/or flushing system and subsequent installation of domestic water meter 110 mm interaxle DN15 (3/4")/ SHORTY DYNAMIC metering module
- Galvanized steel templates for fixing the valves shut-off to the bottom of the housing

 3 domestic water lines

 Compact solution for 3 utilities

Code	Dimensions (mm)	Price €	Unit/Box
650 0623	500 x 1450 x 120 ÷ 170		1/1

10_B SHORTY DYNAMIC METERING SYSTEM

INSTALLATION COMPONENTS




6502KPDYN

"SHORTY" system wall mounting pre-installation kit. Setup stubs included.

DESCRIPTION

- Shut-off ball valves for heating/cooling circuit with 3/4" M and 1" F fittings with idle nut
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for testing and/or flushing system and subsequent installation of domestic water meter 110 mm interaxle DN15 (3/4")/ SHORTY DYNAMIC metering module
- Galvanized steel templates for wall mounting shut-off valves

 For possible third domestic water line metering according to art. 6502LS

Code	Dimensions (mm)	Price €	Unit/Box
650 0605	-		1/1



6502LS

Hot /cold domestic water lines without meter.



DESCRIPTION

- Shut-off ball valves with 3/4" M and 3/4" F fittings with idle nut (with or without integrated non-return valve)
- "Pre-installation" stub for testing and/or flushing system and subsequent installation of domestic water meter 110 mm interaxle DN15 (3/4")
- Plain gaskets
- Galvanized steel supports for fixing shut-off valves to the bottom of the housing

Code	Type	Price €	Unit/Box
	red handle		
650 0601	DN15 domestic hot water		1/1
	blue handle		
650 0602	DN15 domestic cold water		1/1



6502G03DYN

"SHORTY DYNAMIC" metering module consisting of compact calorimeter counter, 3-way motorized zone valve for heating/cooling systems, PICV dynamic balancing valve.



DESCRIPTION

- 3-way zone valve with motorized bypass (230 VAC or 24 VAC power supply)
- Differential bypass tee
- Flow temperature probe holder with M10x1 fitting
- Impurity-removing filter
- PICV dynamic balancing valve (529÷1470 l/h adjustment)
- Compact calorimeter/ frigorimetric meter 130 mm (1") interaxle DN20 Qp = 2.5 m³/h with electronic unit and 2x Ø5 mm probes

Code	Type	Power supply	Price €	Unit/Box
650 0589	Local reading	230 VAC		1/1
650 0590	Local reading	24 VAC		1/1
650 0591	M-Bus reading	230 VAC		1/1
650 0592	M-Bus reading	24 VAC		1/1
650 0593	Wireless reading	230 VAC		1/1
650 0594	Wireless reading	24 VAC		1/1



6502G03DYN

Metering module "SHORTY DYNAMIC" consisting of **compact ULTRASONIC calorimeter counter** 3-way motorized zone valve for heating/cooling systems, PICV dynamic balancing valve.



DESCRIPTION

- 3-way zone valve with motorized bypass (230 VAC or 24 VAC power supply)
- Differential bypass tee
- Flow temperature probe holder with M10x1 fitting
- Impurity-removing filter
- PICV dynamic balancing valve (529÷1470 l/h adjustment)
- Compact ultrasonic calorimeter/ frigorimetric meter 130 mm (1") interaxle DN20 Qp = 2.5 m³/h with electronic unit and 2x Ø5 mm probes

Code	Type	Power supply	Price €	Unit/Box
650 0595	Local reading	230 VAC		1/1
650 0596	Local reading	24 VAC		1/1
650 0597	M-Bus reading	230 VAC		1/1
650 0598	M-Bus reading	24 VAC		1/1
650 0599	Wireless reading	230 VAC		1/1
650 0600	Wireless reading	24 VAC		1/1



6561C

Single jet meter for hot or cold water with local or remote M-Bus reading.



TECHNICAL SPECIFICATIONS

- Brass casing with direct reading on 8 numbered rollers: 5 (black) for cubic metres – 3 (red) for sub-multiples
- Maximum operating temperature:
 - 50 °C (domestic cold water model)
 - 90 °C (domestic hot water model)
- Nominal pressure (PN) 16 bar
- Certified according to Directive 2014/32/EU (Annex MI-001)

i For installation on horizontal or vertical pipes

i Prearranged for remote reading if combined with art. 6561E

Code	Size	Type	Price €	Unit/Box
651 0024	DN15 (3/4")* Q3 = 2.5 m³/h	domestic cold water		1/12
651 0026	DN15 (3/4")* Q3 = 2.5 m³/h	domestic hot water		1/12

* Size of thread body



6561E

Pulse emitter cable. 1/10 pulse/liter.



TECHNICAL SPECIFICATIONS

- Cable length: 1 m

Code	Type	Price €	Unit/Box
651 0085	For 6561C		1/10



6561CR 6561HR

Single jet meter for hot or cold water with local or wireless remote reading



TECHNICAL SPECIFICATIONS

- Brass casing with direct reading on 8 numbered rollers: 5 (black) for cubic metres – 3 (red) for sub-multiples
- Maximum operating temperature:
 - 50 °C (domestic cold water model)
 - 90 °C (domestic hot water model)
- Nominal pressure (PN) 16 bar
- Approved in accordance with Directive 2014/32/EU (Annex MI-001)

i For installation on horizontal or vertical pipes

i Configured for wireless data transmission when combined with art. 6561MR

Code	Size	Type	Price €	Unit/Box
651 0484	DN15 (3/4")* Q3 = 2.5 m³/h	domestic cold water		1/12
651 0514	DN15 (3/4")* Q3 = 2.5 m³/h	domestic hot water		1/12

* Size of thread body



6561MR

Compact radio module with integrated 868 MHz WIRELESS M-Bus inductive wireless sensor.



TECHNICAL SPECIFICATIONS

- Power supply: lithium battery, service life 11+1 years
- Protection rating: IP67

Code	Type	Price €	Unit/Box
651 0486	For 6561CR - 6561HR		1/40



6502K

Fixing kit components for "SHORTY" and "SHORTY DYNAMIC" metering modules

DESCRIPTION

- Shut-off ball valves for heating/cooling circuit with 3/4" M and 1" F fittings with idle nut
- Shut-off ball valves for domestic hot/cold water line with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- Plain gaskets
- Galvanized steel supports for fixing shut-off valves to the bottom of the housing

Code	Type	Price €	Unit/Box
650 0301	SHORTY/SHORTY DYNAMIC		1/4



6502TDYN

Provisional stubs for "SHORTY DYNAMIC" pre-installation housing.

TECHNICAL SPECIFICATIONS

- Interaxle 194 mm (for SHORTY DYNAMIC metering module)
- Interaxle 110 mm (for domestic water meters)

i To be used for flushing and/or hydraulic testing of system

Code	Type	Price €	Unit/Box
651 0641	SHORTY DYNAMIC		1/10



6502IDYN

Thermoformed thermal insulation for "SHORTY DYNAMIC" metering modules

TECHNICAL SPECIFICATIONS

- Insulating shell material: PEX closed cell foam

Code	Type	Price €	Unit/Box
650 0626	SHORTY DYNAMIC		1/1

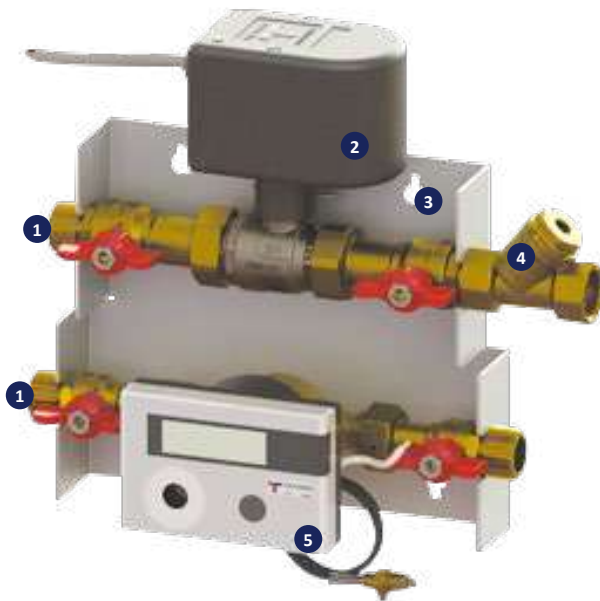
10c BASIC METERING SYSTEM

INTRODUCTION

Metering modules for heating/cooling or domestic water circuits, featuring **extremely compact dimensions**. Equipped with wall brackets.

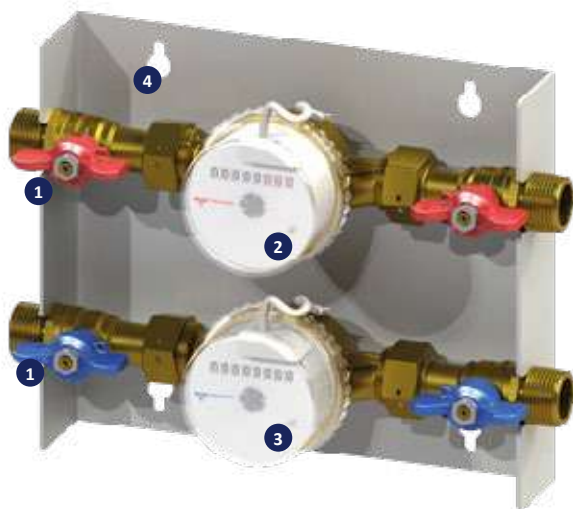
They are the ideal solution for systems where space is limited and for capacities up to 2.5 m³/h for heating/cooling and up to 4 m³/h for domestic water.

HEATING/ COOLING



1. Shut-off valves
2. Motorized 2-way zone valve
3. Bracket
4. Flow probe holder
5. Compact thermal energy meter

DOMESTIC WATER



1. Shut-off valves
2. Domestic hot water meter
3. Domestic cold water meter
4. Bracket



6512P01

Single bracket heating module.



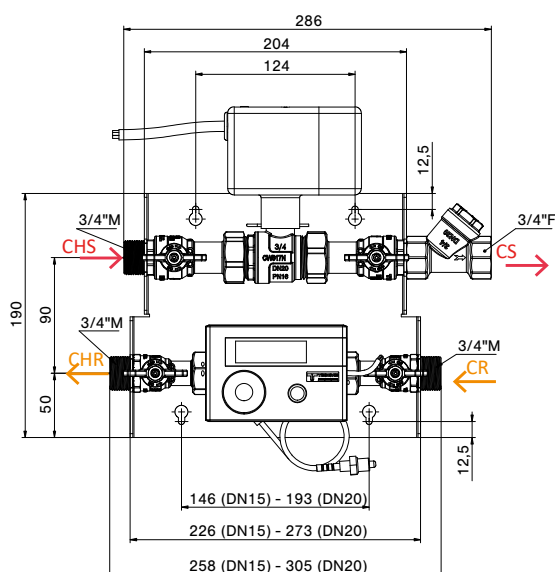
DESCRIPTION

- Motorized 2-way zone valve (230 VAC power supply)
- Shut-off ball valves with 3/4" M and 3/4" F fittings with idle nut or 3/4" M and 1" F with idle nut
- Compact calorie/frigory meter 110 mm interaxle DN15 (3/4") Qp = 1.5 m³/h or 130mm interaxle DN20 (1") Qp = 2.5 m³/h, with electronic unit and 2x Ø5 mm probes
- "Y" fitting supply temperature probe holder with M10x1 fitting
- Galvanized steel template for wall mounting components

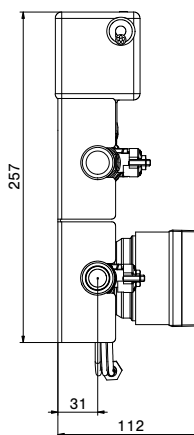
Code	Size	Type	Price €	Unit/Box
650 0078	DN15 Qp = 1.5 m³/h	Local reading		1/1
650 0079	DN20 Qp = 2.5 m³/h	Local reading		1/1
650 0080	DN15 - 1/10 imp/l Qp = 1.5 m³/h	M-Bus reading		1/1
650 0081	DN20 - 1/10 imp/l Qp = 2.5 m³/h	M-Bus reading		1/1
650 0610	DN15 Qp = 1.5 m³/h	Wireless reading		1/1
650 0611	DN20 Qp = 2.5 m³/h	Wireless reading		1/1

6510P01

DIMENSIONAL DIAGRAM FUNCTIONAL DIAGRAM



Abbrev.	Description
CHS	Central heating supply
CHR	Central heating return
CS	Consumer supply
CR	Consumer return





6510P01

Single bracket domestic water module



DESCRIPTION

- Shut-off ball valves with 3/4" M and 3/4" F fittings with idle nut or 3/4" M and 1" F with idle nut (with or without integrated non-return valve)
- Meters for hot and cold domestic water circuit 110 mm interaxle DN15 (3/4") Q3 = 2.5 m³/h or 130 mm interaxle DN20 (1") Q3 = 4.0 m³/h.
- Galvanized steel template for wall mounting components

Code	Size	Type	Price €	Unit/Box
650 0070	DN15 Q3 = 2.5 m³/h	Local reading		1/1
650 0071	DN20 Q3 = 4.0 m³/h	Local reading		1/1
650 0072	DN15 - 1/10 imp/l Q3 = 2.5 m³/h	M-Bus reading		1/1
650 0073	DN20 - 1/10 imp/l Q3 = 4.0 m³/h	M-Bus reading		1/1
650 0624	DN15 Q3 = 2.5 m³/h	Wireless reading		1/1
650 0625	DN20 Q3 = 4.0 m³/h	Wireless reading		1/1

To be combined with art. 6561MR.

IMPORTANT

For the remote control of DHW and DCW consumption using meters configured for M-Bus reading, connecting the meter's pulse emitter to an instrument capable of converting pulses into M-Bus language is necessary:

- via a thermal energy meter configured for M-Bus communication
- via pulse adapter art. 6575C



6561E

Pulse emitter cable. 1/10 pulse/litre.



TECHNICAL SPECIFICATIONS

- Cable length: 1 m

Code	Type	Price €	Unit/Box
651 0085	For 6561C		1/10



6575C

Pulse adapter on M-Bus for meter pairs.

Code	Type	Price €	Unit/Box
651 0074	-		1/10



6561MR

Compact radio module with integrated 868 MHz WIRELESS M-Bus inductive wireless sensor.



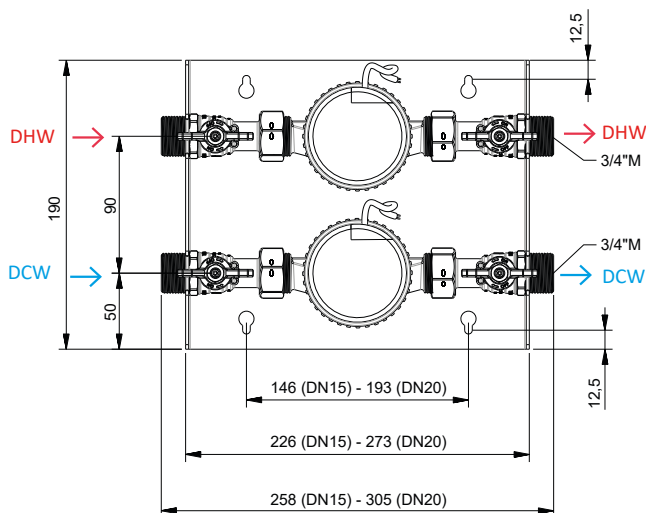
TECHNICAL SPECIFICATIONS

- Power supply: lithium battery, service life 11+1 years
- Protection rating: IP67

Code	Type	Price €	Unit/Box
651 0486	For 6561CR - 6561HR		1/40

6510P01

DIMENSIONAL DIAGRAM FUNCTIONAL DIAGRAM



Abbreviation	Description
DHW	Domestic hot water
DCW	Domestic cold water

10_C BASIC HT METERING SYSTEM

INTRODUCTION

Metering module for heating/cooling circuits, mounted on brackets for wall mounting.

It is the ideal solution for metering the consumption of large-scale apartments.

Suitable for flow rates up to 3.5 m³/h (for DN25 measurement) and 6 m³/h (for DN32 measurement).
Available with 2 or 3-way zone valve to meet different system requirements.

The pre-installation module is supplied with a stub to allow testing and/or flushing of system.
The metering device may be ordered separately in different models according to reading mode.



- | | |
|---------------------------------|--|
| 1. Shut-off valves | 5. Thermal energy meter |
| 2. Motorized 2/3-way zone valve | 6. Return probe holder |
| 3. Bracket | 7. Electronic unit for calorie/frigory calculation |
| 4. Flow probe holder | |

10c BASIC HT METERING SYSTEM

INSTALLATION COMPONENTS



6500G02DN25

Pre-installation module for "BASIC DN25" system with 2-way zone valve, for housing art. 1940. Setup stubs included.

DESCRIPTION

- Shut-off ball valves with 1" F fittings
- Motorized 2-way zone valve (230 VAC supply)
- "Y" supply/return temperature probe holder with M10x1 fitting
- "Pre-installation" stub for testing and/or flushing system and subsequent installation of calorie/frigory meter 260mm interaxle DN25 (1" 1/4)
- Bracket kit for securing components within housing

Code	Type	Price €	Unit/Box
650 0274	DN25 - 2 way		1/1



6500G03DN25

Pre-installation module for "BASIC DN25" system with 3-way zone valve, for housing art. 1940. Setup stubs included.

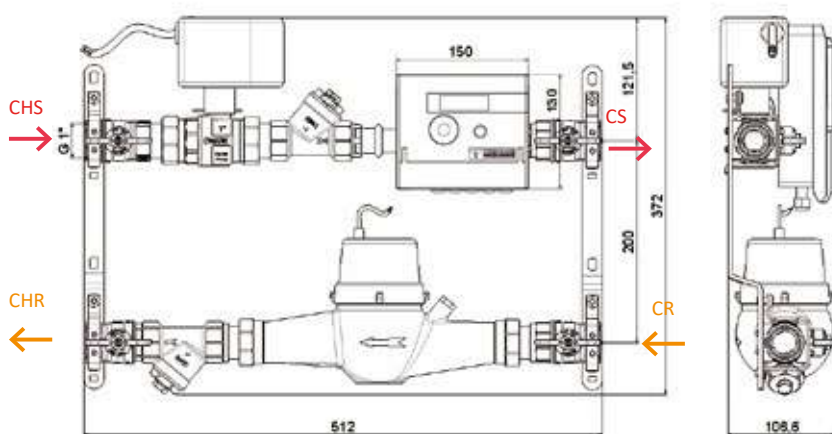
DESCRIPTION

- Shut-off ball valves with 1" F ports
- 3-way zone valve with motorized by-pass (230 VAC power supply)
- "Y" supply/return temperature probe holder with M10x1 fitting
- "Pre-installation" stub for testing and/or flushing system and subsequent installation of calorie/frigory meter 260mm interaxle DN25 (1" 1/4)
- Bracket kit for securing components within housing

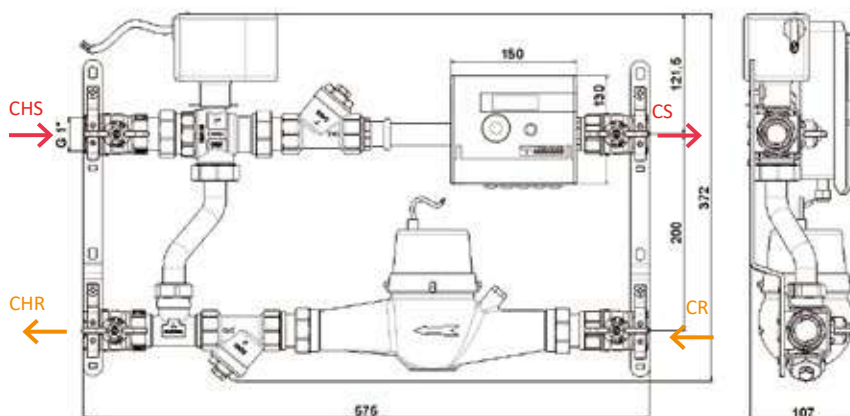
Code	Type	Price €	Unit/Box
650 0275	DN25 - 3 way		1/1

6500G02DN25 6500G03DN25

DIMENSIONAL DIAGRAM FUNCTIONAL DIAGRAM



Abbreviation	Description
CHS	Central heating supply
CHR	Central heating return
CS	Consumer supply
CR	Consumer return



10c BASIC HT METERING SYSTEM

INSTALLATION COMPONENTS



6500G02DN32

Pre-installation module for "BASIC DN32" system with 2-way zone valve, for housing art. 1940. Setup stubs included.

DESCRIPTION

- Shut-off ball valves with 1"1/4 F fittings
- Motorized 2-way zone valve (230 VAC power supply)
- "Y" supply/return temperature probe holder with M10x1 fitting
- "Pre-installation" stub for testing and/or flushing system and subsequent installation of calorie/frigory meter 260mm interaxle DN32 (1" 1/2)
- Bracket kit for securing components within housing

Code	Type	Price €	Unit/Box
650 0276	DN32 - 2 way		1/1



6500G03DN32

Pre-installation module for "BASIC DN32" system with 3-way zone valve, for housing art. 1940. Setup stubs included.

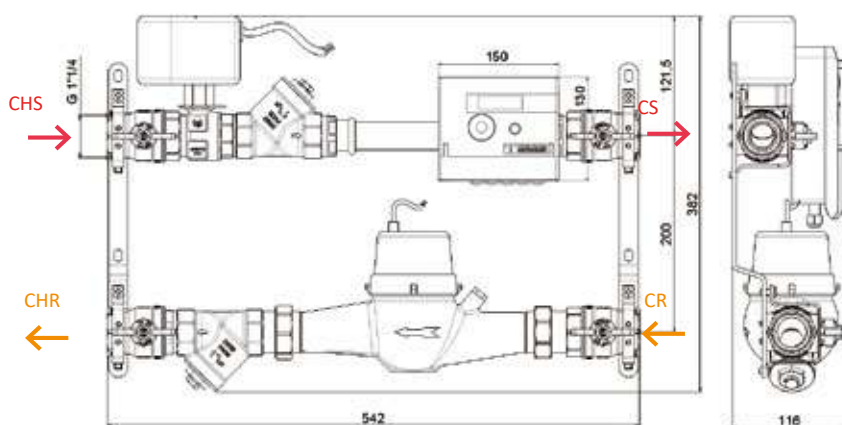
DESCRIPTION

- Shut-off ball valves with 1"1/4 F fittings
- 3-way zone valve with motorized bypass (230 VAC power supply)
- "Y" supply/return temperature probe holder with M10x1 fitting
- "Pre-installation" stub for testing and/or flushing system and subsequent installation of calorie/frigory meter 260mm interaxle DN32 (1" 1/2)
- Bracket kit for securing components within housing

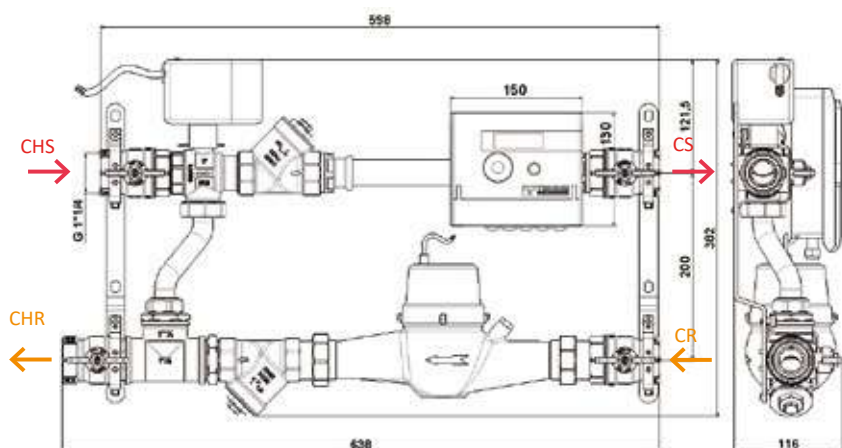
Code	Type	Price €	Unit/Box
650 0277	DN32 - 3 way		1/1

6500G02DN32 6500G03DN32

DIMENSIONAL DIAGRAM FUNCTIONAL DIAGRAM



Abbreviation	Description
CHS	Central heating supply
CHR	Central heating return
CS	Consumer supply
CR	Consumer return



10c BASIC HT METERING SYSTEM

ACCESSORIES



6562T

Multiple-jet, super dry, magnetic transmission meter, pulse outlet 1/10 imp/l.



TECHNICAL SPECIFICATIONS

- Brass casing
- Protective metal cap
- Rotatable totalizer for easy reading
- Inlet filter
- Equipped with reed switch pulse emitter
- Maximum operating temperature: 90 °C
- Nominal pressure: PN16
- Certified according to Directive 2014/32/EU (Annex MI-004)

i For installation on horizontal pipes

i To be combined with:

- Separate electronics for local reading, M-Bus or wireless (art. 6564C)
- Pair of PT500 temperature probes for "wet" mounting (art. 6565SB)

Code	Size	Pulse outlet	Price €	Unit/Box
651 0488	DN25 (1"1/4)* qp = 3,5 m³/h	1/10 imp/l		1/2
651 0502	DN32 (1"1/2)* qp = 6 m³/h	1/10 imp/l		1/2

* Size of thread body



6564C

Separate electronic unit for combined heat energy meters.



TECHNICAL SPECIFICATIONS

- Calorie and frigory measurement
- 3V Lithium Replaceable Battery, 10 year service life
- Communication interfaces: Wireless M-Bus + 3 pulse inlets, M-Bus + 3 pulse inlets, volume and energy pulse outlet, calorie and frigory pulse outlet
- IP65 protection rating
- Yearly reading date settable, 15 monthly values viewable from display, 24 monthly values viewable via optical interface or M-Bus
- Dimensions (WxHxD): 150 x 130 x 35 mm

i Programmable pulse factor: to be programmed before installation according to the combined meter pulse features

Code	Type	Price €	Unit/Box
651 0642	Local reading, programmable		1/4
651 0046	M-Bus reading, programmable		1/4
6510495	Wireless reading, programmable		1/4



6565SB

PT500 temperature probe pair (EN 60751) for wells art. 3670PS ("wet" mount).

Code	Type	Price €	Unit/Box
651 0049	Ø 5 mm - 3 m		1/10



1940

Height- and depth-adjustable housing with lock kit.

i Depth adjustable from 120 mm to 170 mm

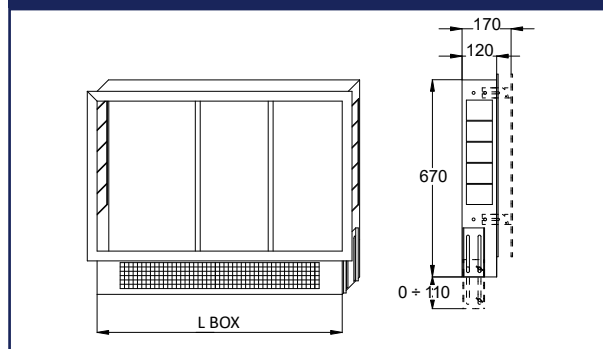
Code	Type	Price €	Unit/Box
181 0020	600 x 670 x 120 ÷ 170		1/1
181 0016	700 x 670 x 120 ÷ 170		1/1

Housing for 2-way module

Housing for 3-way module

1940

DIMENSIONS



6500I

Thermoformed thermal insulation for "VARIO, FLOOR, DUO, BASIC HT DN32" 2- or 3-way metering module.

TECHNICAL SPECIFICATIONS

- Insulating shell material: PEX closed cell foam

Code	Type	Price €	Unit/Box
650 0119	DN25 - 2 way		1/1
650 0120	DN25 - 3 way		1/1
650 0121	DN32 - 2 way		1/1
650 0122	DN32 - 3 way		1/1

10_D MULTI MODUL METERING SYSTEM

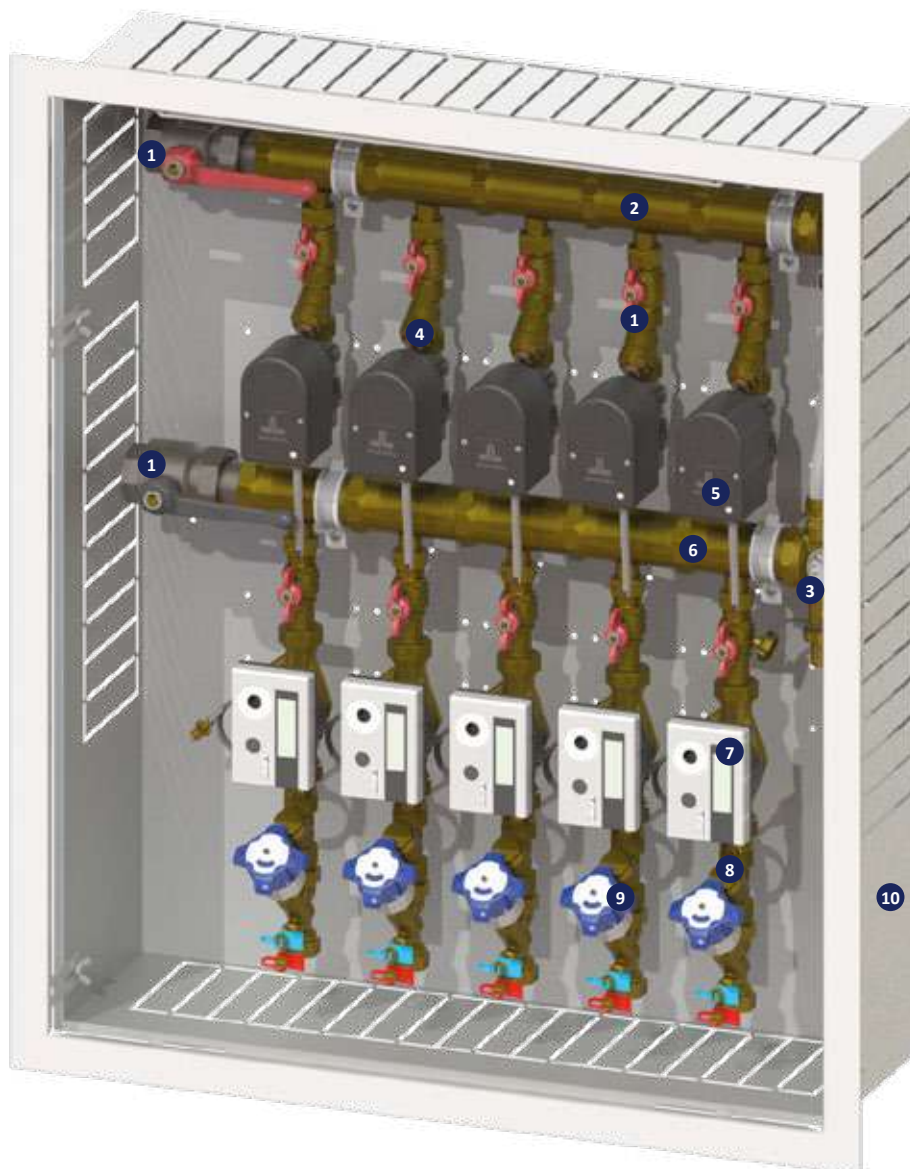
INTRODUCTION

Multi-utility metering module for heating/cooling or domestic water circuits.
Suitable for flow rates up to 2.5 m³/h.

The module can be installed directly within the shaft or in a metal housing (optional) that accommodates up to 5 measurement units.

The DN40 mounting on which the various modules are installed is directly detachable from the main column and **may be positioned both horizontally and vertically** to meet any system requirements and facilitate installation.

The various modules are supplied with stubs to allow the testing and/or flushing of the system.
Metering devices can be ordered separately in different models according to reading mode.



- | | |
|-------------------------------|--|
| 1. Shut-off valves | 7. Compact thermal energy meter |
| 2. Modular supply manifold | 8. Dirt collector filter |
| 3. Bypass terminal kit | 9. Static balancing valve |
| 4. Delivery probe holder | 10. Metal box with locking cover and supports (optional) |
| 5. Motorized 2-way zone valve | |
| 6. Modular return manifold | |

10_D MULTI MODUL METERING SYSTEM

INSTALLATION COMPONENTS



6509MN

Flow rate metering module with 2-way motorized zone valve for "MULTI-MODUL" heating/cooling system

DESCRIPTION

- Manifold 1"1/2 with 3/4" F shunt connection
- Shut-off ball valve
- "Y" fitting probe holder with M10x1 socket for supply temperature reading
- Motorized 2-way zone valve (230 VAC supply)

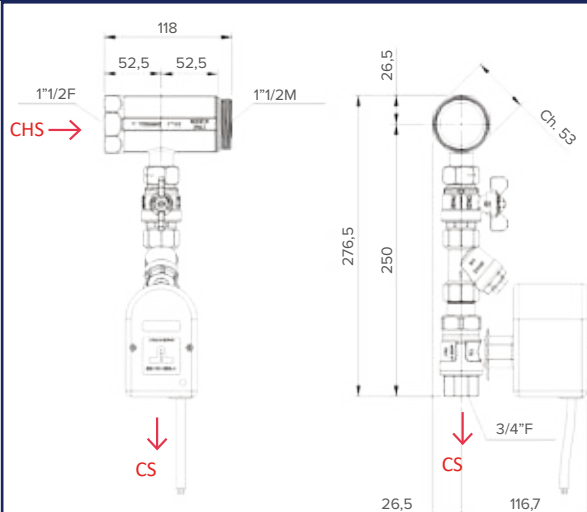
Modular

May be combined with metal housing art. 1937

Code	Type	Price €	Unit/Box
650 0316	DN40		1/1

6509MN

DIMENSIONAL DIAGRAM FUNCTIONAL DIAGRAM



Abbreviation	Description
CHS	Central heating supply
CS	Consumer supply



6509RT

Return metering module with pre-installation stub, static balancing valve for "MULTI-MODUL" heating/cooling system

DESCRIPTION

- Manifold 1"1/2 with 3/4" F shunt connection
- Shut-off ball valve
- "Pre-installation" stub for system testing and/or flushing and subsequent installation of the calorie/frigory meter 130 mm interaxis DN20 (1")
- Impurity-removing filter
- Static balancing valve

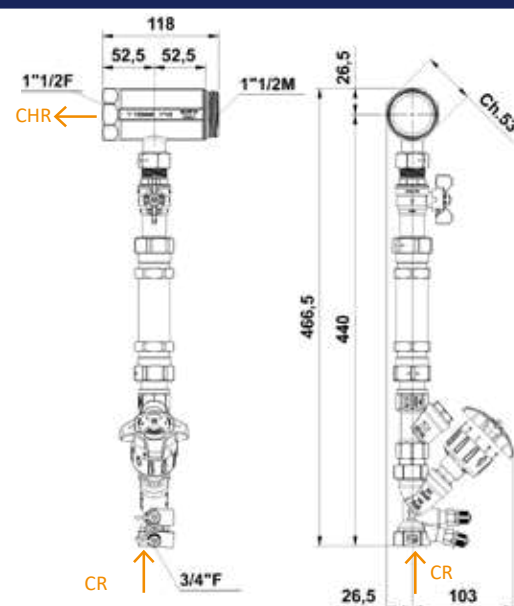
Modular

May be combined with metal housing art. 1937

Code	Type	Price €	Unit/Box
650 0353	DN40		1/1

6509RT

DIMENSIONAL DIAGRAM FUNCTIONAL DIAGRAM



Abbreviation	Description
CHR	Central heating return
CR	Consumer return



10_D MULTI MODUL METERING SYSTEM

INSTALLATION COMPONENTS



6509SNC

Metering module for domestic hot water with pre-installation stub for "MULTI-MODUL" system

DESCRIPTION

- Manifold 1"1/2 with 3/4" F shunt connection
- Shut-off ball valves (with or without built-in non-return valve)
- "Pre-installation" stub for testing and/or flushing system and subsequent installation of domestic water meter 110 mm (3/4") interaxle DN15

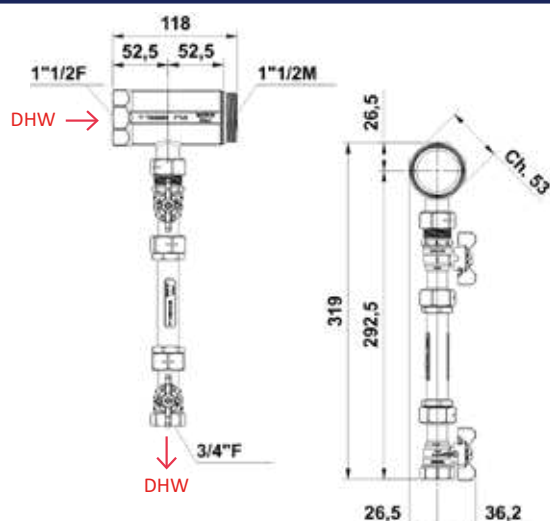
Modular

May be combined with metal housing art. 1937

Code	Type	Price €	Unit/Box
650 0319	DN40 - DHW		1/10

6509SNC

DIMENSIONAL DIAGRAM FUNCTIONAL DIAGRAM



Abbreviation	Description
DHW	Domestic hot water



6509SNF

Metering module for domestic cold water with pre-installation stub for "MULTI-MODUL" system

DESCRIPTION

- Manifold 1"1/2 with 3/4" F shunt connection
- Shut-off ball valves (with or without built-in non-return valve)
- "Pre-installation" stub for testing and/or flushing system and subsequent installation of domestic water meter 110 mm (3/4") interaxle DN15

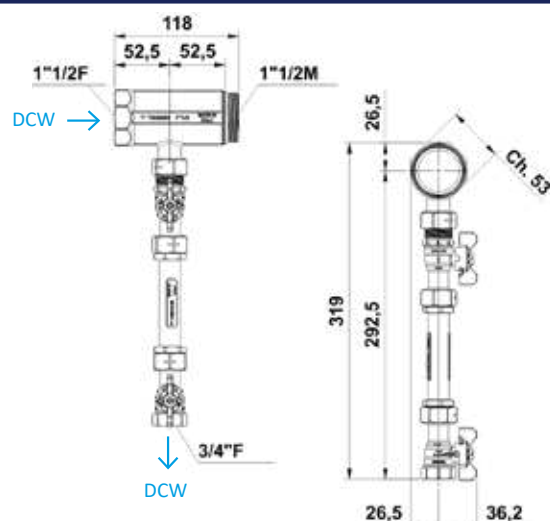
Modular

May be combined with metal housing art. 1937

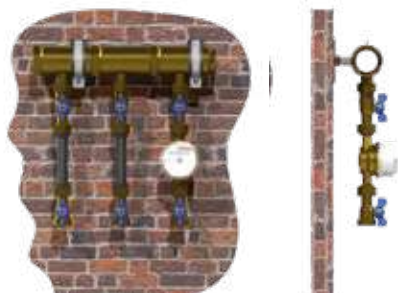
Code	Type	Price €	Unit/Box
650 0329	DN40 - DCW		1/10

6509SNF

DIMENSIONAL DIAGRAM FUNCTIONAL DIAGRAM



Abbreviation	Description
DCW	Domestic cold water



10_D MULTI MODUL METERING SYSTEM

ACCESSORIES



6509K
Pair of clamps.

Code	Type	Price €	Unit/Box
651 0351	L = 20 mm		1/10
651 0352	L = 65 mm		1/10



1882
Male plug with O-ring for manifolds

Code	Type	Price €	Unit/Box
195 0041	1" 1/2		5/70



1880
Female plug for manifolds

Code	Type	Price €	Unit/Box
150 0327	1" 1/2		5/75



6509KBY
Terminal kit with bypass for metering modules art. 6509MN and 6509RT.

Code	Type	Price €	Unit/Box
651 0361	1" 1/2		1/5



6509KT
Terminal kit for metering modules art. 6509MN and 6509RT.

Code	Type	Price €	Unit/Box
651 0448	1" 1/2		1/5



6509IMN
Thermoformed thermal insulation for metering module 6509MN.

TECHNICAL SPECIFICATIONS

- Insulating shell material: PEX closed cell foam

Code	Type	Price €	Unit/Box
650 0411	by art.		1/5



6509IRT
Thermoformed thermal insulation for 6509RT metering module.

TECHNICAL SPECIFICATIONS

- Insulating shell material: PEX closed cell foam

Code	Type	Price €	Unit/Box
650 0412	by art. 6509RT		1/5



6509IBY
Thermoformed thermal insulation for terminal kit with bypass.

TECHNICAL SPECIFICATIONS

- Insulation shell material: PEX closed cell foam

Code	Type	Price €	Unit/Box
650 0421	by art. 6509KBY		1/5



6509IT
Thermoformed thermal insulation for terminal kit.

TECHNICAL SPECIFICATIONS

- Insulating shell material: PEX closed cell foam

Code	Type	Price €	Unit/Box
650 0501	by art. 6509KT		1/5



2121CP

ISO 228 male/female ball valve with aluminium handle for manifolds and Flat washer

Code	Type	Price €	Unit/Box
 red handle			
212 0122	1"1/2		3/12
 black handle			
212 0124	1"1/2		3/12



1937

Metal housing for "MULTI-MODUL" system metering modules art. 6509MN and 6509RT or 6509SNC and 6509SNF.

 Depth adjustable from 200 mm to 250 mm

Code	Type	Price €	Unit/Box
181 0128	750 x 900 x 200 ÷ 250		1/1




6560CW 6560C

Compact single-jet calorimeter/ frigorimeter for local reading, M-Bus remote reading and wireless reading.




TECHNICAL SPECIFICATIONS

- Brass casing with 8-digit LCD display electronic unit, 360° positionable and detachable from main body (cable length 50 cm)
- Communication interfaces: Wireless M-Bus + 3 pulse inlets, M-Bus + 3 pulse inlets, local reading + 3 pulse inlets
- 3V Lithium Battery, 10 years service life (replaceable) - setup for external power supply via 3V power supply
- Pt1000 platinum temperature probes
- Nominal pressure: PN16
- Maximum operating temperature: 90 °C
- Protection rating: IP65
- Certified according to Directive 2014/32/EU (Annex MI-004)

 Equipped with 3 pulse inlets

 For installation on horizontal or vertical pipes

 If used in conjunction with cooled water, the detachable electronics may be attached to the bottom of the housing/shaft in order to avoid possible occurrences of condensation.

Code	Size	Type	Price €	Unit/Box
651 0022	DN20 (1")* Qp = 2.5 m³/h	Local reading		1/6
651 0023	DN20 (1")* Qp = 2.5 m³/h	M-Bus reading		1/6
651 0492	DN20 (1")* Qp = 2.5 m³/h	Wireless reading		1/6

* Size of thread body




6560CUW 6568C


Compact ultrasonic calorimeter/ frigorimeter for local reading, M-Bus remote reading and wireless reading.




TECHNICAL SPECIFICATIONS

- Brass casing with 8-digit LCD display electronic unit, 360° positionable and detachable from main body (cable length 85 cm)
- Communication interfaces: Wireless M-Bus + 3 pulse inlets, M-Bus + 3 pulse inlets, local reading + 3 pulse inlets
- 3V Lithium Battery, 10 years service life (replaceable) - setup for external power supply via 3V power supply
- Pt1000 platinum temperature probes
- Nominal pressure: PN16
- Maximum operating temperature: 90 °C
- Protection rating: IP65
- Certified according to Directive 2014/32/EU (Annex MI-004)

 Equipped with 3 pulse inlets

 It provides greater durability and accuracy over time, thanks to the absence of moving parts

 For installation on horizontal or vertical pipes

 If used in conjunction with cooled water, the detachable electronics may be attached to the bottom of the housing/shaft in order to avoid possible occurrences of condensation.

Code	Size	Type	Price €	Unit/Box
651 0601	DN20 (1")* Qp = 2.5 m³/h	Local reading		1/1
651 0056	DN20 (1")* Qp = 2.5 m³/h	M-Bus reading		1/1
651 0494	DN20 (1")* Qp = 2.5 m³/h	Wireless reading		1/6

* Size of thread body



6561C

Single-jet meter for hot or cold water with local or remote M-Bus reading



TECHNICAL SPECIFICATIONS

- Brass casing with direct reading on 8 numbered rollers: 5 (black) for cubic metres – 3 (red) for sub-multiples
- Maximum operating temperature:
 - 50 °C (domestic cold water model)
 - 90 °C (domestic hot water model)
- Nominal pressure (PN) 16 bar
- Certified according to Directive 2014/32/EU (Annex MI-001)

i For installation on horizontal or vertical pipes

i Configured for remote reading if combined with art. 6561E

Code	Size	Type	Price €	Unit/Box
651 0024	DN15 (3/4")* Q3 = 2.5 m³/h	domestic cold water		1/12
651 0026	DN15 (3/4")* Q3 = 2.5 m³/h	domestic hot water		1/12

* Size of thread body



6561CR 6561HR

Single-jet meter for hot or cold water with local or wireless remote reading



TECHNICAL SPECIFICATIONS

- Brass casing with direct reading on 8 numbered rollers: 5 (black) for cubic metres – 3 (red) for sub-multiples
- Maximum operating temperature:
 - 50 °C (domestic cold water model)
 - 90 °C (domestic hot water model)
- Nominal pressure (PN) 16 bar
- Approved in accordance with Directive 2014/32/EU (Annex MI-001)

i For installation on horizontal or vertical pipes

i Configured for wireless data transmission when combined with art. 6561MR

Code	Size	Type	Price €	Unit/Box
651 0484	DN15 (3/4")* Q3 = 2.5 m³/h	domestic cold water		1/12
651 0514	DN15 (3/4")* Q3 = 2.5 m³/h	domestic hot water		1/12

* Size of thread body



6561E

Pulse emitter cable. 1/10 pulse/litre.



TECHNICAL SPECIFICATIONS

- Cable length: 1 m

Code	Type	Price €	Unit/Box
651 0085	For 6561C		1/10



6561MR

Compact radio module with integrated 868 MHz WIRELESS M-Bus inductive wireless sensor.



TECHNICAL SPECIFICATIONS

- Power supply: lithium battery, service life 11+1 years
- Protection rating: IP67

Code	Type	Price €	Unit/Box
651 0486	For 6561CR - 6561HR		1/40



6575C

Pulse adapter on M-Bus for meter pairs.

Code	Type	Price €	Unit/Box
651 0074	-		1/10

IMPORTANT

For the remote control of DHW and DCW consumption using meters configured for M-Bus reading, connecting the meter's pulse emitter to an instrument capable of converting pulses into M-Bus language is necessary:

- via a thermal energy meter configured for M-Bus communication
- via pulse adapter art. 6575C

10_E VARIO METERING SYSTEM

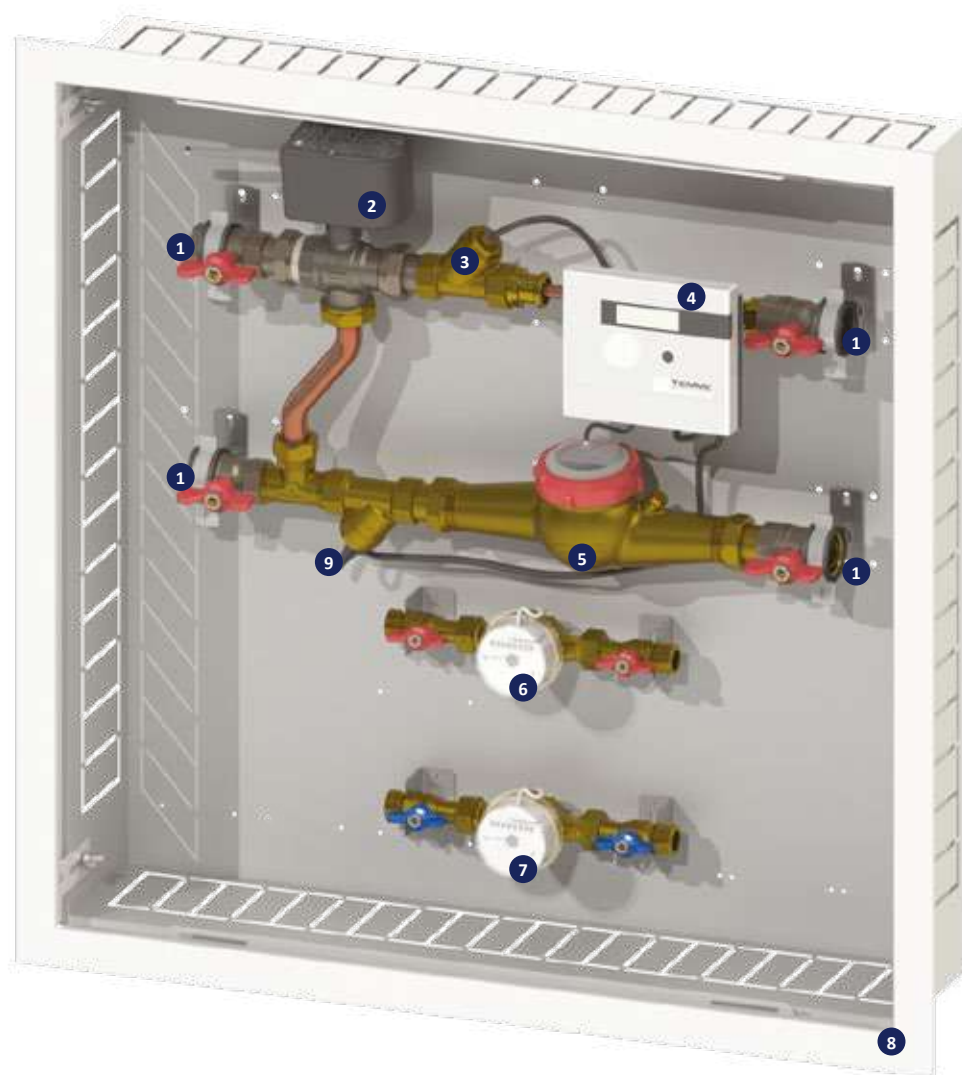
INTRODUCTION

Metering module for heating/cooling and domestic water circuits.

It is the ideal solution for metering the consumption of large-scale apartments.

Suitable for flow rates up to 3.5 m³/h (for DN25 measurement) and 6 m³/h (for DN32 measurement).
Available with 2- or 3-way zone valve to meet different system requirements.

The pre-installation housing is supplied with stubs to allow system testing and/or flushing.
Metering devices can be ordered separately in different models according to reading mode.



- | | |
|---|--|
| 1. Shut-off valves | 6. Domestic hot water meter |
| 2. Motorized 2/3-way zone valve | 7. Domestic cold water meter |
| 3. Delivery probe holder | 8. Metal housing with locking cover and supports |
| 4. Electronic unit for calorie-frigor calculation | 9. Return probe holder |
| 5. Meter for heating-cooling circuit | |

10_E VARIO METERING SYSTEM

INSTALLATION COMPONENTS



6500C0125V2

Pre-installation metal housing for "VARIO DN25" system, with 2-way zone valve. Setup stubs included.

DESCRIPTION

- Galvanized steel housing complete with painted frame and cover in white RAL 9010
 - Dimensions (WxHxD) 750 x 750 x 140 ÷ 190 mm
- Shut-off ball valves for heating/cooling circuit with 1" F fittings
- Motorized 2-way zone valve (230 VAC power supply)
- "Y" supply/return temperature probe holder with M10x1 fitting
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for testing and/or flushing of system and subsequent installation of the calorific/frigory meter 260mm interaxle DN25 (1" 1/4) and 110 mm interaxle DN15 (3/4) domestic water meters
- Bracket kit for securing components within housing

Code	Type	Price €	Unit/Box
650 0395	DN25 - 2 way		1/1



6500C0125V3

Pre-installation metal housing for "VARIO DN25" system, with 3-way zone valve. Setup stubs included.

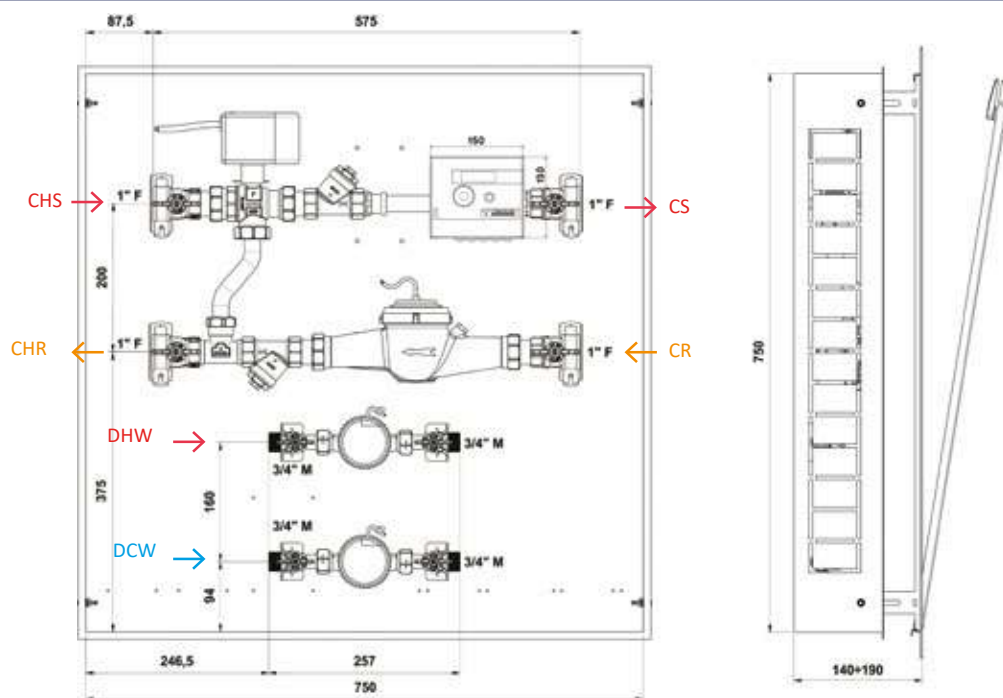
DESCRIPTION

- Galvanized steel housing with painted frame and cover in white RAL 9010
 - Dimensions (WxHxD) 750 x 750 x 140 ÷ 190 mm
- Shut-off ball valves for heating/cooling circuit with 1" F fittings
- 3-way zone valve with motorized bypass (230 VAC power supply)
- "Y" supply/return temperature probe holder with M10x1 fitting
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for testing and/or flushing of system and subsequent installation of the calorific/frigory meter 260mm interaxle DN25 (1" 1/4) and 110 mm interaxle DN15 (3/4) domestic water meters
- Bracket kit for securing components within housing

Code	Type	Price €	Unit/Box
650 0396	DN25 - 3-way		1/1

6500C0125V2 6500C0125V3

DIMENSIONAL DIAGRAM FUNCTIONAL DIAGRAM



Abbrev.	Description	Abbrev.	Description	Abbrev.	Description
CHS	Central heating supply	CS	Consumer supply	DHW	Domestic hot water
CHR	Central heating return	CR	Consumer return	DCW	Domestic cold water

10_E VARIO METERING SYSTEM

INSTALLATION COMPONENTS



6500C0132V2

Pre-installation metal housing for "VARIO DN32" system, with 2-way zone valve. Setup stubs included.

DESCRIPTION

- Galvanized steel housing with painted frame and cover in white RAL 9010
- Dimensions (WxHxD) 750 x 750 x 140 ÷ 190 mm
- Shut-off ball valves for heating/cooling circuit with 1"1/4 F fittings
- Motorized 2-way zone valve (230 VAC power supply)
- "Y" supply/return temperature probe holder with M10x1 fitting
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without integrated non-return valve)
- "Pre-installation" stubs for testing and/or flushing of system and subsequent installation of the calorie/frigory meter 260mm (1" 1/2) interaxle DN32 and 110 mm (3/4) interaxle DN15 domestic water meters.
- Bracket kit for securing components within housing

Code	Type	Price €	Unit/Box
650 0397	DN32 - 2-way		1/1



6500C0132V3

Pre-installation metal housing for "VARIO DN32" system, with 3-way zone valve. Setup stubs included.

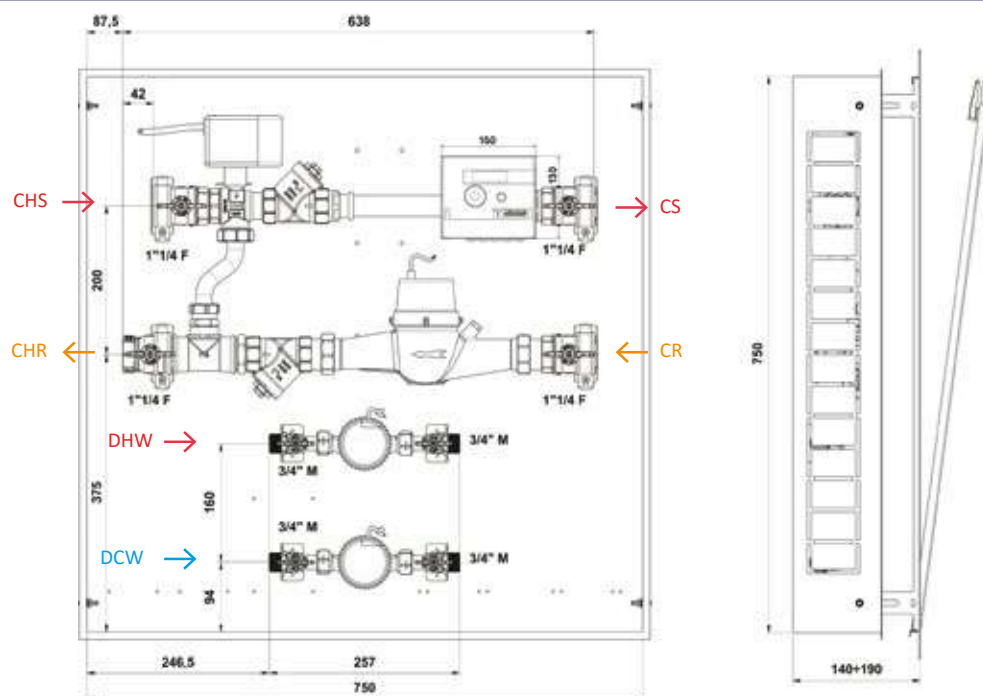
DESCRIPTION

- Galvanized steel housing with painted frame and cover in white RAL 9010
- Dimensions (WxHxD) 750 x 750 x 140 ÷ 190 mm
- Shut-off ball valves for heating/cooling circuit with 1"1/4 F fittings
- 3-way zone valve with motorized bypass (230 VAC power supply)
- "Y" supply/return temperature probe holder with M10x1 fitting
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for testing and/or flushing of system and subsequent installation of the calorie/frigory meter 260mm (1" 1/2) interaxle DN32 and 110 mm (3/4) interaxle DN15 domestic water meters.
- Bracket kit for securing components within housing

Code	Type	Price €	Unit/Box
650 0398	DN32 - 3-way		1/1

6500C0132V2 6500C0132V3

DIMENSIONAL DIAGRAM FUNCTIONAL DIAGRAM



Abbrev.	Description	Abbrev.	Description	Abbrev.	Description
CHS	Central heating supply	CS	Consumer supply	DHW	Domestic hot water
CHR	Central heating return	CR	Consumer return	DCW	Domestic cold water



6562T

Multiple-jet, super dry, magnetic transmission meter, pulse outlet 1/10 imp/l.



TECHNICAL SPECIFICATIONS

- Brass casing
- Protective metal cap
- Rotatable totalizer for easy reading
- Inlet filter
- Equipped with reed switch pulse emitter
- Maximum operating temperature: 90 °C
- Nominal pressure: PN16
- Certified according to Directive 2014/32/EU (Annex MI-004)

i For installation on horizontal or vertical pipes

i To be combined with:

- Separate electronics for local reading, M-Bus or wireless (art. 6564C)
- Pair of PT500 temperature probes for "wet" mounting (art. 6565SB)

Code	Size	Pulse outlet	Price €	Unit/Box
651 0488	DN25 (1"1/4)* Qp = 3.5 m³/h	1/10 imp/l		1/2
651 0502	DN32 (1"1/2)* Qp = 6 m³/h	1/10 imp/l		1/2

* Size of thread body



6565SB

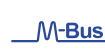
Temperature probe pair Pt 500 (EN 60751) for wells art. 3670PS ("wet" mounting).

Code	Type	Price €	Unit/Box
651 0049	Ø 5 mm - 3 m		1/10



6564C

Separate electronic unit for combined heat energy meters.



TECHNICAL SPECIFICATIONS

- Calorie and frigory measurement
- 3V replaceable lithium battery, 10 year service life
- Communication interfaces: Wireless M-Bus + 3 pulse inlets, M-Bus + 3 pulse inlets, volume and energy pulse outlet, calorie and frigory pulse outlet
- IP65 protection rating
- Settable annual reading date, 15 monthly values viewable on display, 24 monthly values viewable via optical interface or M-Bus
- Dimensions (WxHxD): 150 x 130 x 35 mm

i Programmable pulse factor: to be programmed before installation according to the combined meter pulse features

Code	Type	Price €	Unit/Box
651 0642	Local reading, programmable		1/4
651 0046	M-Bus reading, programmable		1/4
6510495	Wireless reading, programmable		1/4



6500I

Thermoformed thermal insulation for "VARIO, FLOOR, DUO, BASIC HT DN32" 2- or 3-way metering module.

TECHNICAL SPECIFICATIONS

- Insulating shell material: PEX closed cell foam

Code	Type	Price €	Unit/Box
650 0119	DN25 - 2-way		1/1
650 0120	DN25 - 3-way		1/1
650 0121	DN32 - 2-way		1/1
650 0122	DN32 - 3-way		1/1



6561C

Single-jet meter for hot or cold water with local or remote M-Bus reading.



TECHNICAL SPECIFICATIONS

- Brass casing with direct reading on 8 numbered rollers: 5 (black) for cubic metres – 3 (red) for sub-multiples
- Maximum operating temperature:
 - 50 °C (domestic cold water model)
 - 90 °C (domestic hot water model)
- Nominal pressure (PN) 16 bar
- Certified according to Directive 2014/32/EU (Annex MI-001)

i For installation on horizontal or vertical pipes

i Configured for remote reading if combined with art. 6561E

Code	Size	Type	Price €	Unit/Box
651 0024	DN15 (3/4")* Q3 = 2.5 m³/h	domestic cold water		1/12
651 0026	DN15 (3/4")* Q3 = 2.5 m³/h	domestic hot water		1/12

* Size of thread body



6561E

Pulse emitter cable. 1/10 pulse/litre.



TECHNICAL SPECIFICATIONS

- Cable length: 1 m

Code	Type	Price €	Unit/Box
651 0085	For 6561C		1/10



6561CR 6561HR

Single-jet meter for hot or cold water with local or wireless remote reading



TECHNICAL SPECIFICATIONS

- Brass casing with direct reading on 8 numbered rollers: 5 (black) for cubic metres – 3 (red) for sub-multiples
- Maximum operating temperature:
 - 50 °C (domestic cold water model)
 - 90 °C (domestic hot water model)
- Nominal pressure (PN) 16 bar
- Approved in accordance with Directive 2014/32/EU (Annex MI-001)

i For installation on horizontal or vertical pipes

i Configured for wireless data transmission when combined with art. 6561MR

Code	Size	Type	Price €	Unit/Box
651 0484	DN15 (3/4")* Q3 = 2.5 m³/h	domestic cold water		1/12
651 0514	DN15 (3/4")* Q3 = 2.5 m³/h	domestic hot water		1/12

* Size of thread body



6561MR

Compact radio module with integrated 868 MHz WIRELESS M-Bus inductive wireless sensor.



TECHNICAL SPECIFICATIONS

- Power supply: lithium battery, service life 11+1 years
- Protection rating: IP67

Code	Type	Price €	Unit/Box
651 0486	For 6561CR - 6561HR		1/40

10_F FLOOR DN20 METERING SYSTEM

INTRODUCTION

Metering module for heating/cooling and domestic water circuits with system-side connection fittings at the bottom of the housing.

It is the ideal solution for horizontal distribution systems.

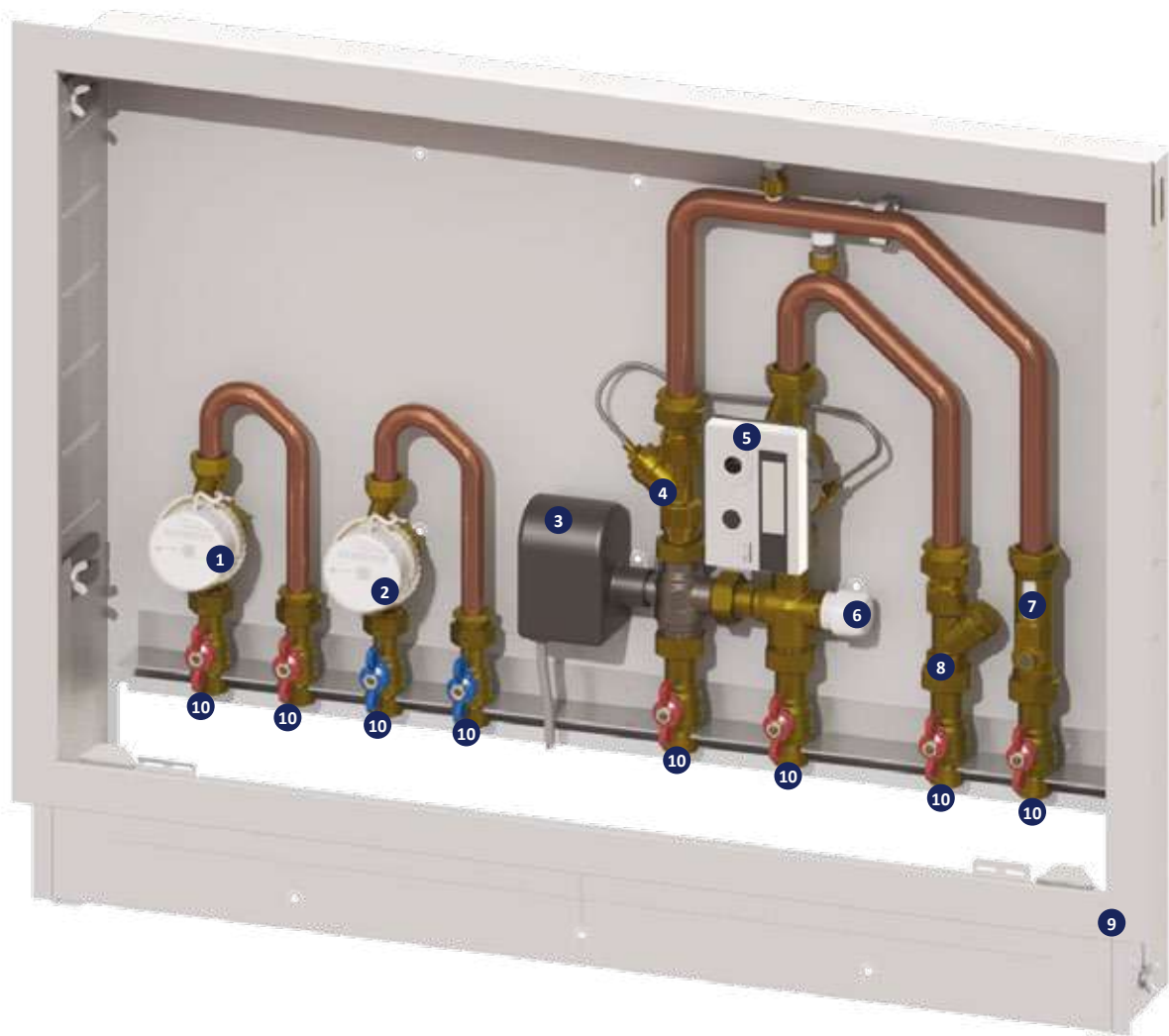
Available with 2- or 3- way zone valve.

The presence of a bypass differential valve makes it an extremely precise and functional system.

Suitable for flow rates up to 2.5 m³/h.

The pre-installation housing is supplied with stubs to allow system testing and/or flushing.

Metering devices can be ordered separately in different models according to reading mode.



1. Domestic hot water meter
2. Domestic cold water meter
3. Motorized 2/3-way zone valve
4. Delivery probe holder
5. Compact thermal energy meter

6. Differential bypass valve
7. Flow meter
8. Impurity-trapping filter
9. Metal housing with locking cover and supports
10. Shut-off valves

10_F FLOOR DN20 METERING SYSTEM

INSTALLATION COMPONENTS



6501C0120

Pre-installation metal casing for "FLOOR DN20" system. Setup stubs included

DESCRIPTION

- Galvanized steel housing with painted frame and cover in white RAL 9010
- Dimensions (WxHxD) 850 x 670 x 120 ÷ 170 mm
- Shut-off ball valves for heating/cooling circuit with 3/4" M and 1" F fittings with idle nut
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for testing and/or flushing system and subsequent installation of the metering module
- Galvanized steel template for mounting the shut-off valves at the bottom of the casing

Code	Type	Price €	Unit/Box
650 0026	850 x 670 x 120 ÷ 170		1/1



6501G02

Metering module consisting of compact calorimeter, 2-way motorized zone valve and 2 "FLOOR DN20" meters for DHW and DCW



DESCRIPTION

- Motorized 2-way zone valve (230 VAC power supply)
- "Y" fitting supply temperature probe holder with M10x1 fitting
- Balancing valve (regulation 4÷15 or 8÷30 l/min)
- Impurity-removing "Y" filter
- Compact calorie/frigorie counter 130 mm (1") interaxle DN20
Qp = 2.5 m³/h, with electronic unit and 2x probes Ø5 mm
- Meters for hot and cold domestic water circuit 110 mm interaxle DN15 (3/4") Q3 = 2.5 m³/h
- Copper fittings for connecting components

i For pre-installation housing art. 6501C0120

Code	Flow meter adjustment	Type	Price €	Unit/Box
650 0027	4 - 15 l/min	Local reading		1/1
650 0028	8 - 30 l/min	Local reading		1/1
650 0030	4 - 15 l/min	M-Bus reading		1/1
650 0031	8 - 30 l/min	M-Bus reading		1/1
650 0612	4 - 15 l/min	Wireless reading		1/1
650 0613	8 - 30 l/min	Wireless reading		1/1



6501G03

Metering module consisting of compact calorie counter units, 3-way motorized zone valve and 2 "FLOOR DN20" meters for DHW and DCW



DESCRIPTION

- Motorized 3-way zone valve (230 VAC power supply)
- Differential bypass (0÷400 mbar adjustable range)**
- "Y" fitting supply temperature probe holder with M10x1 fitting
- Balancing valve (4÷15 or 8÷30 l/min adjustable range)
- Impurity-removing "Y" filter
- Compact calorie/frigorie meter 130 mm (1") interaxle DN20
Qp = 2.5 m³/h, with electronic unit and 2x probes Ø5 mm
- Meters for hot and cold domestic water circuit 110 mm interaxle DN15 (3/4") Q3 = 2.5 m³/h
- Copper fittings for components connection

i For pre-installation housing art. 6501C0120

Code	Flow meter adjustment	Type	Price €	Unit/Box
650 0033	4 - 15 l/min	Local reading		1/1
650 0034	8 - 30 l/min	Local reading		1/1
650 0036	4 - 15 l/min	M-Bus reading		1/1
650 0037	8 - 30 l/min	M-Bus reading		1/1
650 0614	4 - 15 l/min	Wireless reading		1/1
650 0615	8 - 30 l/min	Wireless reading		1/1



6501I

Thermoformed thermal insulation for metering module

TECHNICAL SPECIFICATIONS

- Insulation shell material: PEX closed cell foam

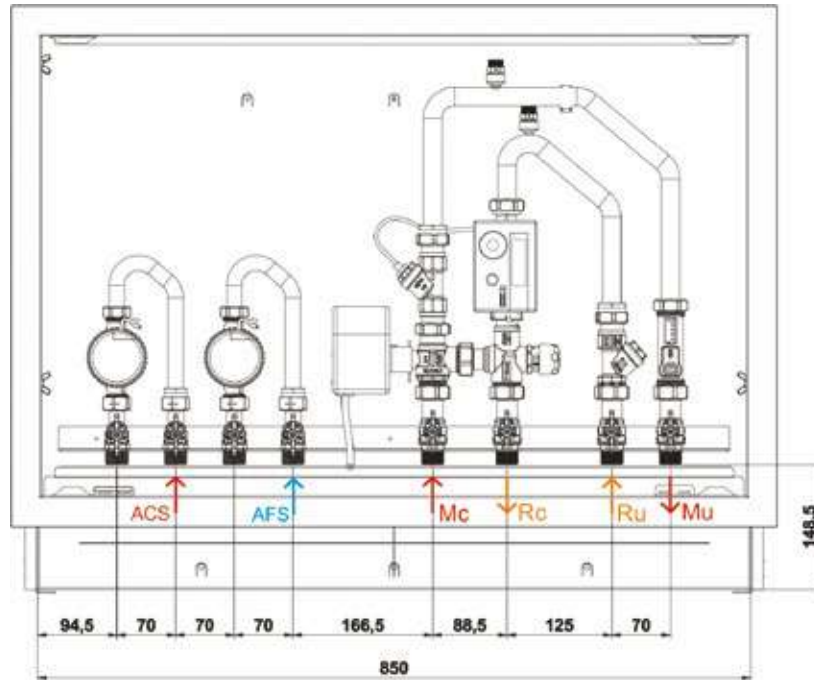
Code	Type	Price €	Unit/Box
650 0058	FLOOR - DN20		1/5

10_F FLOOR DN20 METERING SYSTEM

INSTALLATION COMPONENTS

6501C0120 + 6501G02
6501C0120 + 6501G03

DIMENSIONAL DIAGRAM
FUNCTIONAL DIAGRAM



Abbrev.	Description
CHS	Central heating supply
CHR	Central heating return
CS	Consumer supply
CR	Consumer return
DHW	Domestic hot water
DCW	Domestic cold water

10_F FLOOR METERING SYSTEM DN25 - DN32

INTRODUCTION

Metering module for heating/cooling and domestic water circuits with system-side connection fittings at the bottom of the housing.

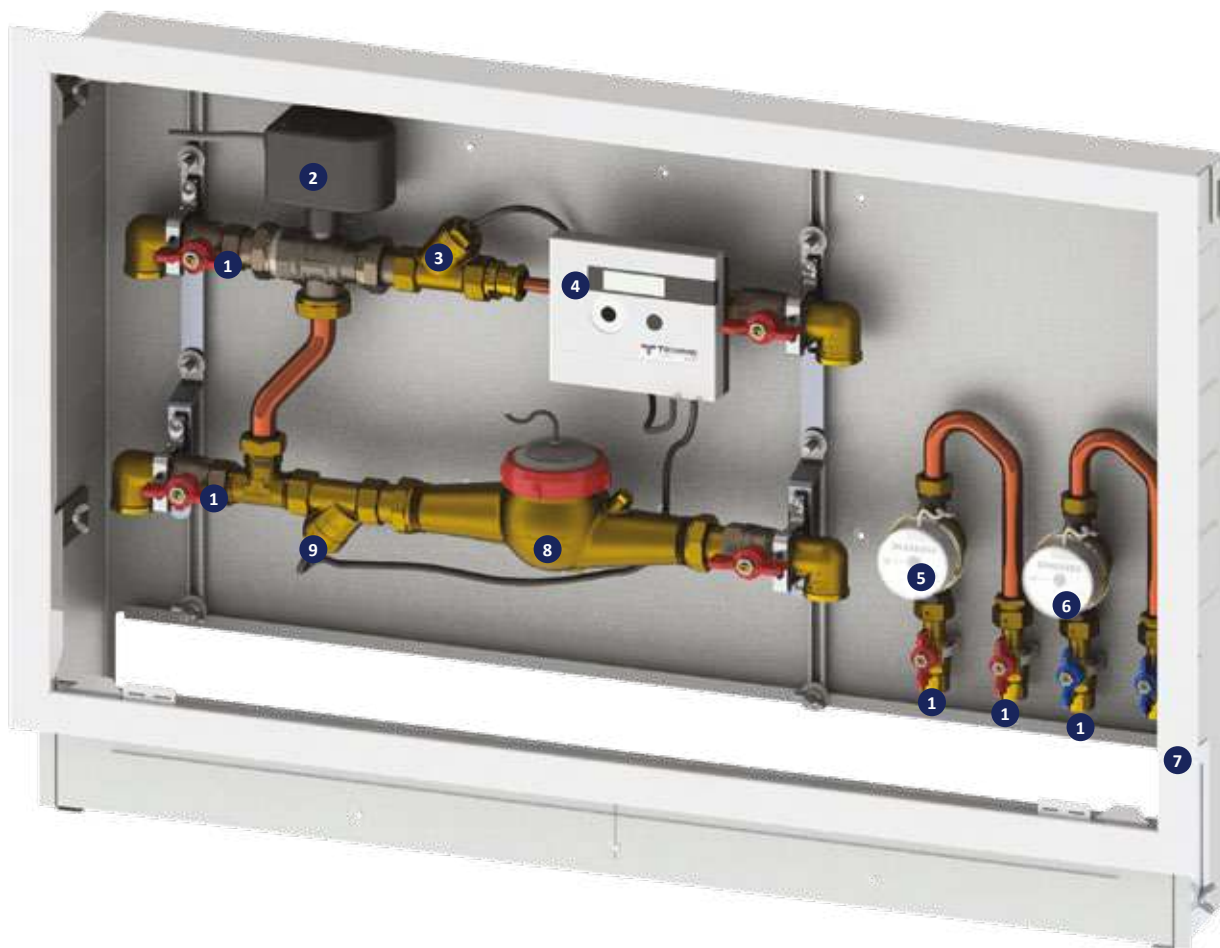
The ideal solution when metering consumption across large-footprint apartments with horizontal distribution.

Suitable for flow rates up to 3.5 m³/h (DN25) and 6 m³/h (DN32).

Available with 2- or 3-way zone valve to meet different system requirements.

The pre-installation housing is supplied with stubs to allow system testing and/or flushing.

Metering devices can be ordered separately in different models according to reading mode.



1. Shut-off valve
2. Motorized 2/3-way zone valve
3. Flow probe holder
4. Electronic unit of calculation for calories - frigories
5. Domestic hot water meter

6. Domestic cold water meter
7. Metal housing with locking cover and supports
8. Meter for heating - cooling circuit
9. Return probe holder

10_F FLOOR METERING SYSTEM DN25 - DN32

INSTALLATION COMPONENTS



6501C0125V2

Pre-installation metal housing for "FLOOR DN25 WITH 2-WAY ZONE VALVE" system. Setup stubs included.

DESCRIPTION

- Galvanized steel housing with painted frame and cover in white RAL 9010
- Dimensions (WxHxD) 1000 x 670 x 120 ÷ 170 mm
- Shut-off ball valves for heating/cooling circuit and bend fittings with 1" F connections
- Motorized 2-way zone valve (230 VAC power supply)
- "Y" fitting supply/return temperature probe with M10x1 fitting
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for testing and/or flushing of system and subsequent installation of the calorie/frigory meter 260mm (1" 1/4) interaxle DN25 and 110 mm (3/4) interaxle DN15 domestic water meters.
- Copper fittings for component connection
- Bracket kit for securing components within housing

Code	Type	Price €	Unit/Box
650 0189	DN25 - 2-way		1/1



6501C0125V3

Pre-installation metal housing for "FLOOR DN25 WITH 3-WAY ZONE VALVE" system. Setup stubs included.

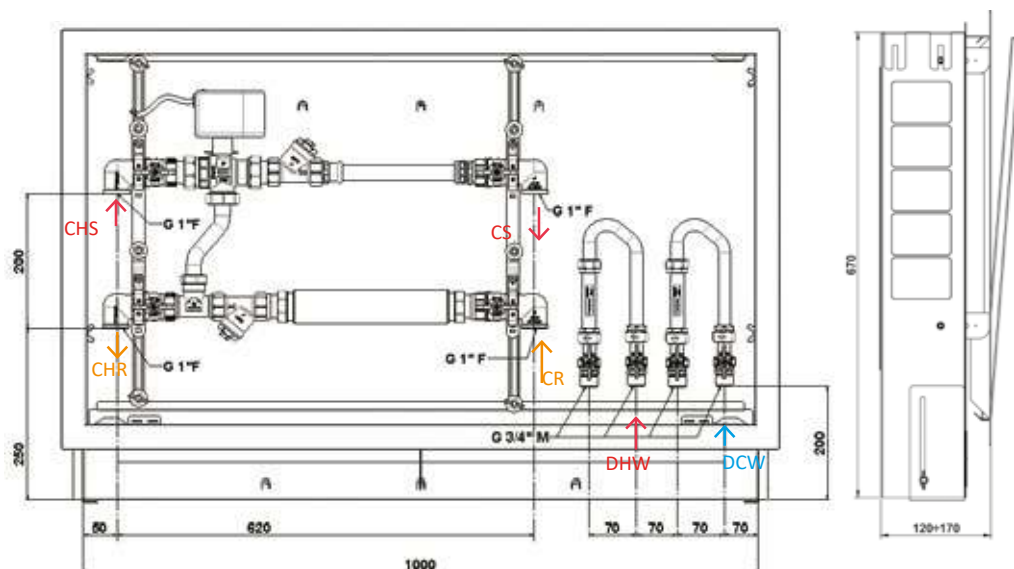
DESCRIPTION

- Galvanized steel housing with painted frame and cover in white RAL 9010
- Dimensions (WxHxD) 1000 x 670 x 120 ÷ 170 mm
- Shut-off ball valves for heating/cooling circuit and bend fittings with 1" F connections
- 3-way zone valve with motorized bypass (230 VAC power supply)
- "Y" fitting supply/return temperature probe with M10x1 fitting
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for testing and/or flushing of system and subsequent installation of the calorie/frigory meter 260mm (1" 1/4) interaxle DN25 and 110 mm (3/4) interaxle DN15 domestic water meters.
- Copper fittings for component connection
- Bracket kit for securing components within housing

Code	Type	Price €	Unit/Box
650 0101	DN25 - 3-way		1/1

6501C0125V2 6501C0125V3

DIMENSIONAL DIAGRAM FUNCTIONAL DIAGRAM



Abbrev.	Description
CHS	Central heating supply
CHR	Central heating return
CS	Consumer supply

Abbrev.	Description
CR	Consumer return
DHW	Domestic hot water
DCW	Domestic cold water

10_F FLOOR METERING SYSTEM DN25 - DN32

INSTALLATION COMPONENTS



6501C0132V2

Pre-installation metal housing for "FLOOR DN32" system, with 2-way zone valve. Setup stubs included.

DESCRIPTION

- Galvanized steel housing with painted frame and cover in white RAL 9010
- Dimensions (WxHxD) 1200 x 670 x 120 ÷ 170 mm
- Shut-off ball valves for heating/cooling circuit and bend fittings with 1" 1/4 F connections
- Motorized 2-way zone valve (230 VAC power supply)
- "Y" fitting supply/return temperature probe with M10x1 fitting
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for testing and/or flushing of system and subsequent installation of the calorie/frigory meter 260mm (1" 1/2) interaxle DN32 and 110 mm (3/4) interaxle DN15 domestic water meters.
- Copper fittings for component connection
- Bracket kit for securing components within housing

Code	Type	Price €	Unit/Box
650 0190	DN32 - 2-way		1/1



6501C0132V3

Pre-installation metal housing for "FLOOR DN32" system, with 3-way zone valve. Setup stubs included.

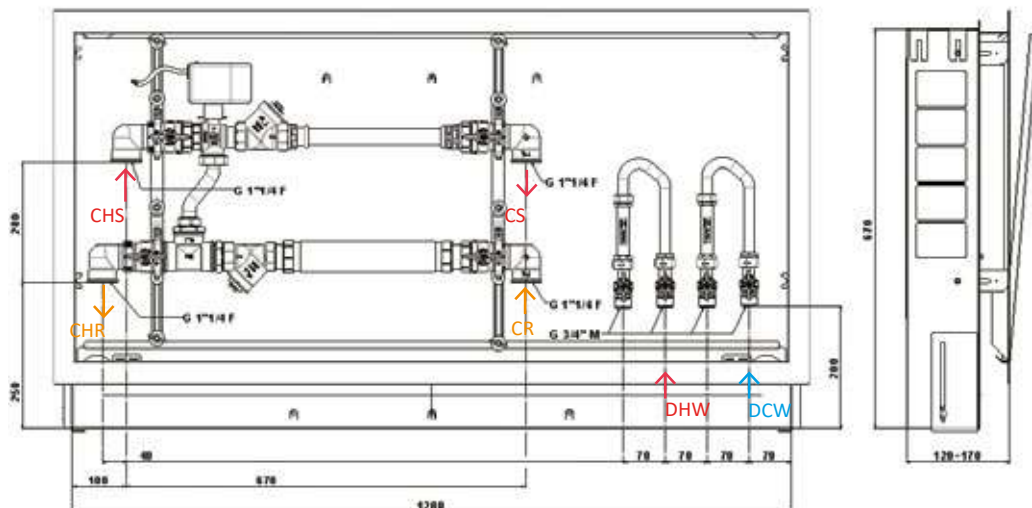
DESCRIPTION

- Galvanized steel housing with painted frame and cover in white RAL 9010
- Dimensions (WxHxD) 1200 x 670 x 120 ÷ 170 mm
- Shut-off ball valves for heating/cooling circuit and bend fittings with 1" 1/4 F connections
- 3-way zone valve with motorized bypass (230 VAC power supply)
- "Y" fitting supply/return temperature probe with M10x1 fitting
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for testing and/or flushing of system and subsequent installation of the calorie/frigory meter 260mm (1" 1/2) interaxle DN32 and 110 mm (3/4) interaxle DN15 domestic water meters.
- Copper fittings for component connection
- Bracket kit for securing components within housing

Code	Type	Price €	Unit/Box
650 0191	DN32 - 3-way		1/1

6501C0132V2 6501C0132V3

DIMENSIONAL DIAGRAM FUNCTIONAL DIAGRAM



Abbrev.	Description
CHS	Central heating supply
CHR	Central heating return
CS	Consumer supply

Abbrev.	Description
CR	Consumer return
DHW	Domestic hot water
DCW	Domestic cold water

10_F FLOOR METERING SYSTEM DN25 - DN32

ACCESSORIES



6562T

Multiple-jet, super dry, magnetic transmission meter, pulse output 1/10 imp/l.



TECHNICAL SPECIFICATIONS

- Brass casing
- Protective metal cap
- Rotatable totalizer for ease of reading
- Inlet filter
- Equipped with reed switch pulse emitter
- Maximum operating temperature: 90 °C
- Nominal pressure: PN16
- Certified according to Directive 2014/32/EU (Annex MI-004)

i For installation on horizontal or vertical pipes

i To be combined with:

- Separate electronics for local reading, M-Bus or wireless (art. 6564C)
- Pair of PT500 temperature probes for "wet" mounting (art. 6565SB)

Code	Size	Pulse outlet	Price €	Unit/Box
651 0488	DN25 (1"1/4)* Qp = 3.5 m³/h	1/10 imp/l		1/2
651 0502	DN32 (1"1/2)* Qp = 6 m³/h	1/10 imp/l		1/2

* Size of thread body



6565SB

Pair of PT500 temperature probes (EN 60751) for wells art. 3670PS ("wet" mount).

Code	Type	Price €	Unit/Box
651 0049	Ø 5 mm - 3 m		1/10



6564C

Separate electronic unit for combined heat energy meters.



TECHNICAL SPECIFICATIONS

- Calorie and frigory measurement
- 3V replaceable lithium battery, 10 year service life
- Communication interfaces: Wireless M-Bus + 3 pulse inlets, M-Bus + 3 pulse inlets, volume and energy pulse outlet, calorie and frigory pulse outlet
- IP65 protection rating
- Settable annual reading date, 15 monthly values viewable on display, 24 monthly values viewable via optical interface or M-Bus
- Dimensions (WxHxD): 150 x 130 x 35 mm

i Programmable pulse factor: to be programmed before installation according to the combined meter pulse features

Code	Type	Price €	Unit/Box
651 0642	Local reading, programmable		1/4
651 0046	M-Bus reading, programmable		1/4
6510495	Wireless reading, programmable		1/4



6500I

Thermoformed thermal insulation for "VARIO, FLOOR, DUO, BASIC HT DN32" 2- or 3-way metering module.

TECHNICAL SPECIFICATIONS

- Insulation shell material: PEX closed cell foam

Code	Type	Price €	Unit/Box
650 0119	DN25 - 2-way		1/1
650 0120	DN25 - 3-way		1/1
650 0121	DN32 - 2-way		1/1
650 0122	DN32 - 3-way		1/1



6561C

Single-jet meter for hot or cold water with local or remote M-Bus reading.



TECHNICAL SPECIFICATIONS

- Brass casing with direct reading on 8 numbered rollers: 5 (black) for cubic metres – 3 (red) for sub-multiples
- Maximum operating temperature:
 - 50 °C (domestic cold water model)
 - 90 °C (domestic hot water model)
- Nominal pressure (PN) 16 bar
- Certified according to Directive 2014/32/EU (Annex MI-001)

i For installation on horizontal or vertical pipes

i Configured for remote reading if combined with art. 6561E

Code	Size	Type	Price €	Unit/Box
651 0024	DN15 (3/4")* Q3 = 2.5 m³/h	domestic cold water		1/12
651 0026	DN15 (3/4")* Q3 = 2.5 m³/h	domestic hot water		1/12

* Size of thread body



6561E

Pulse emitter cable. 1/10 pulse/litre



TECHNICAL SPECIFICATIONS

- Cable length: 1 m

Code	Type	Price €	Unit/Box
651 0085	For 6561C		1/10



6561CR 6561HR

Single-jet meter for hot or cold water with local or wireless remote reading



TECHNICAL SPECIFICATIONS

- Brass casing with direct reading on 8 numbered rollers: 5 (black) for cubic metres – 3 (red) for sub-multiples
- Maximum operating temperature:
 - 50 °C (domestic cold water model)
 - 90 °C (domestic hot water model)
- Nominal pressure (PN) 16 bar
- Approved in accordance with Directive 2014/32/EU (Annex MI-001)

i For installation on horizontal or vertical pipes

i Configured for wireless data transmission when combined with art. 6561MR

Code	Size	Type	Price €	Unit/Box
651 0484	DN15 (3/4")* Q3 = 2.5 m³/h	domestic cold water		1/12
651 0514	DN15 (3/4")* Q3 = 2.5 m³/h	domestic hot water		1/12

* Size of thread body



6561MR

Compact radio module with integrated 868 MHz WIRELESS M-Bus inductive wireless sensor



TECHNICAL SPECIFICATIONS

- Power supply: lithium battery, service life 11+1 years
- Protection rating: IP67

Code	Type	Price €	Unit/Box
651 0486	For 6561CR - 6561HR		1/40

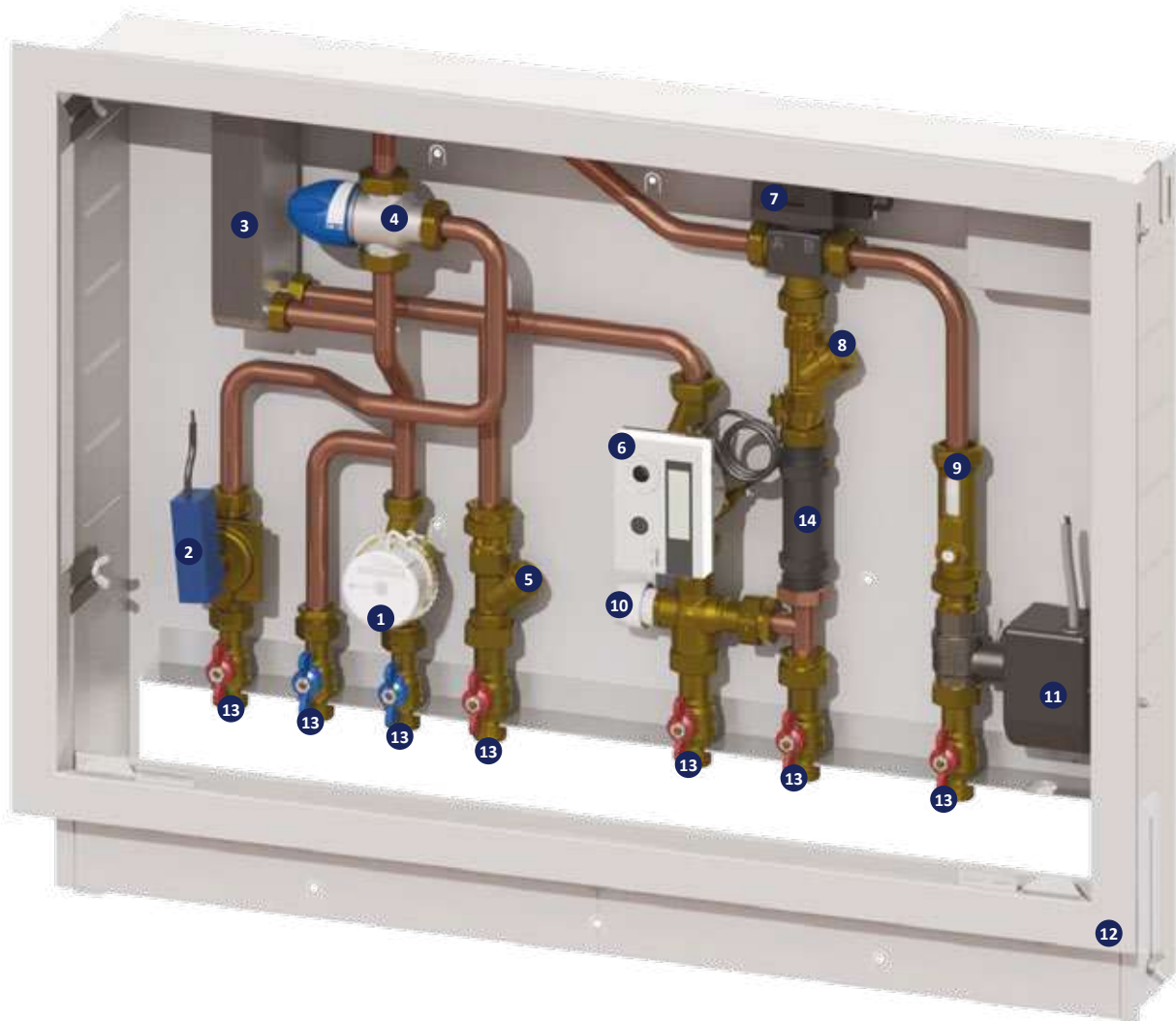
10_G HEAT METERING SYSTEM

INTRODUCTION

Metering module for heating-only circuits with instant DHW production via steel exchanger.

The instant production of domestic hot water avoids the energy losses along the distribution lines and guarantees DHW at the correct temperature everywhere throughout the building without the need for a recycling network.

The module is equipped with a brazed plate heat exchanger and a domestic water priority valve that switches all available heat power to the heat exchanger. The domestic water temperature at usage points is controlled by a thermostatic mixing valve. By virtue of the different use times and the considerable inertia differences, the fast-switching valve does not affect heating side efficiency when DHW production is in operation.



- | | |
|---------------------------------|---|
| 1. Domestic cold water meter | 9. Flow meter |
| 2. Flow switch | 10. Differential bypass valve |
| 3. Heat exchanger | 11. Motorized 2/3-way zone valve |
| 4. Thermostatic mixing valve | 12. Metal housing with locking cover and supports |
| 5. Impurity-trapping filter | 13. Shut-off valves |
| 6. Compact thermal energy meter | 14. Stub for possible circulating pump installation |
| 7. Motorized DHW priority valve | |
| 8. Delivery probe holder | |

10_G HEAT METERING SYSTEM

INSTALLATION COMPONENTS



6503C01

Pre-installation metal housing for "HEAT" system. Setup stubs included.

DESCRIPTION

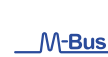
- Galvanized steel housing with painted frame and cover in white RAL 9010
- Dimensions (WxHxD) 850 x 670 x 120 ÷ 170 mm
- Shut-off ball valves for heating/cooling circuit with 3/4" M and 1" F fittings with idle nut
- Shut-off ball valves for domestic water circuits with 3/4" M and 3/4" F fittings with idle nut (with or without built-in non-return valve)
- "Pre-installation" stubs for testing and/or flushing system and subsequent installation of the metering module
- Galvanized steel template for mounting the shut-off valves at the bottom of the housing

Code	Type	Price €	Unit/Box
650 0059	850 x 670 x 120 ÷ 170		1/1



6503G03P

Metering module with instant DHW production consisting of motorized 2-way zone valve, priority valve for domestic water circuit, heat exchanger, thermostatic mixer, compact meter for heating/cooling system and domestic water meter. Local/remote reading. For pre-installation housing art. 6503C01.



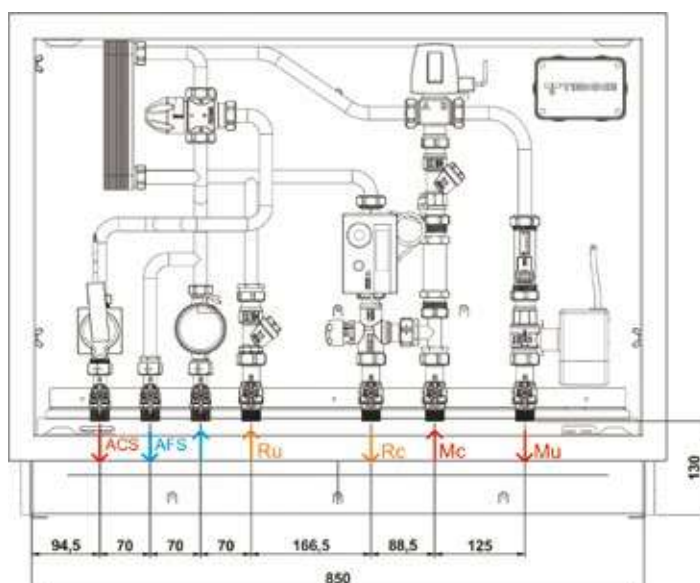
DESCRIPTION

- Motorized 2-way zone valve (230 VAC power supply)
- Priority valve for domestic water circuit
- Plate heat exchanger (35 kW or 50 kW)
- Thermostatic anti-scalding mixing valve.
- Differential bypass (0÷400 mbar setting)
- "Y" fitting delivery temperature probe holder with M10x1 fitting
- Balancing valve (8÷30 l/min adjustable range)
- Impurity-removing "Y" filter
- Compact calorie/frigorie meter 130 mm (1") interaxle DN20
Qp = 2.5 m³/h, with electronic unit and 2x probes Ø5 mm
- Meter for domestic cold water circuit, 110 mm interaxle DN15 (3/4")
Q3 = 2.5 m³/h configured with outlet pulse
- Copper fittings for component connection

Code	Exchanger power	Type	Price €	Unit/Box
650 0064	35 kW	M-Bus reading		1/1
650 0065	50 kW	M-Bus reading		1/1
650 0016	35 kW	Wireless reading		1/1
650 0017	50 kW	Wireless reading		1/1

6503C01 + 6503G03P

DIMENSIONAL DIAGRAM FUNCTIONAL DIAGRAM



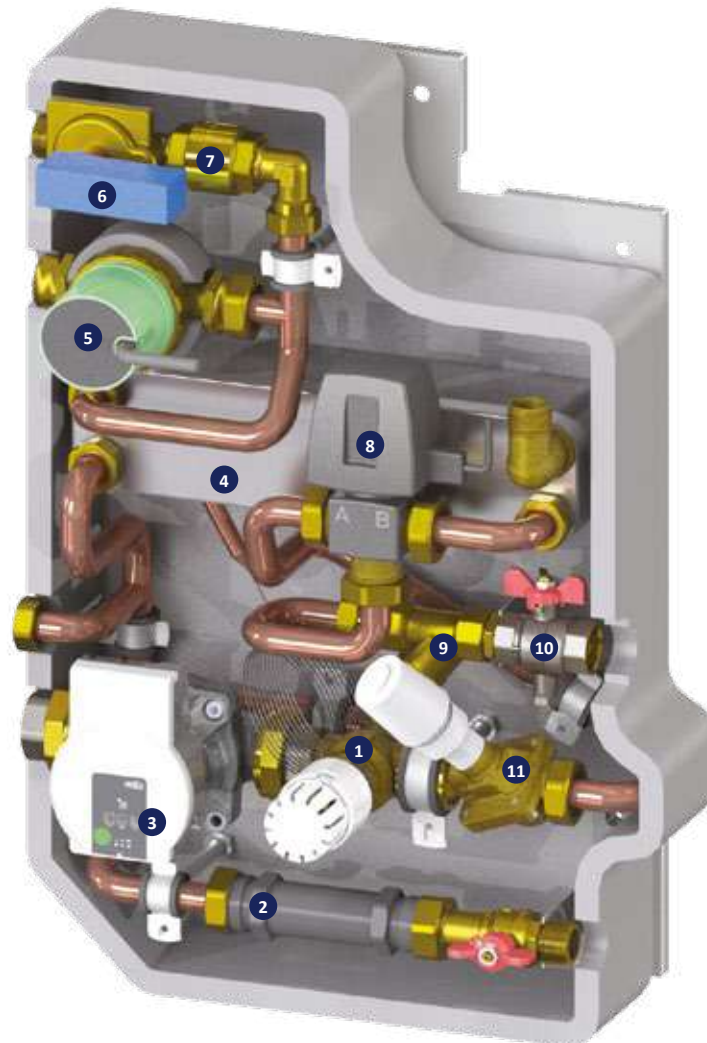
Abbrev.	Description
CHS	Central heating supply
CHR	Central heating return
CS	Consumer supply
CR	Consumer return
DHW	Domestic hot water
DCW	Domestic cold water

INTRODUCTION

Metering module for heating circuits with instant DHW production via steel exchanger and, if equipped, fitting for recirculation. With dynamic balancing valve, pressostatic valve for domestic water priority, zone valve and insulation. It is one of the most widely used systems for metering energy combined with DHW production.

All Heat-EVO modules are insulated and available in 4 versions depending on the configuration:

- **HEAT-EVO1:** Metering module with outlet for low temperature heating (for radiant systems); heating system pump and DHW recirculation pump
- **HEAT-EVO2:** Metering module with outlet for low temperature heating (for radiant systems) and heating system pump
- **HEAT-EVO3:** Metering module with outlet for high temperature heating (for radiators); DHW recirculation pump
- **HEAT-EVO4:** Metering module with outlet for high temperature heating (for radiators)
- **HEAT-EVO1DYN:** Metering module with outlet for low temperature heating (for radiant systems); heating system pump and DHW recirculation pump. Version equipped with balancing valve with differential pressure control on the primary and dynamic balancing on the DHW.



1. Mixing valve
2. Support stub for energy meter installation
3. Heat pump
4. Heat exchanger
5. Recirculation pump
6. Flow switch

7. Non-return valve
8. Diverter valve
9. Impurity-trapping filter
10. Probe holder ball valve
11. Dynamic balancing valve with ON/OFF actuator

10_H HEAT-EVO METERING SYSTEM

INSTALLATION COMPONENTS



HEAT-EVO1

Metering module with outlet for low temperature heating (with mixing) for radiant systems, pump for heating system and pump for heating system and pump for DHW recirculation

DESCRIPTION

- Plate heat exchanger 53 kW
- Priority valve for domestic water circuit
- **Domestic recirculation pump**
- Dynamic balancing valve (180÷1080 l/h adjustable range) with Normally Closed actuator with ON/OFF control (230 VAC power supply)
- "Pre-installation" stub for system testing and/or flushing and subsequent installation of the calorie/frigor meter 130 mm (1") interaxis DN20
- Impurity-removing strainer
- Fixed point mixing valve (20÷50 °C setting)
- **Heat pump**
- Copper fittings for component connection
- Insulation shell
- Metal plate for wall mounting

Code	Type	Price €	Unit/Box
650 0636	53 kW		1/1



HEAT-EVO2

Metering module with outlet for low temperature heating (with mixing) for radiant systems and pump for heating system

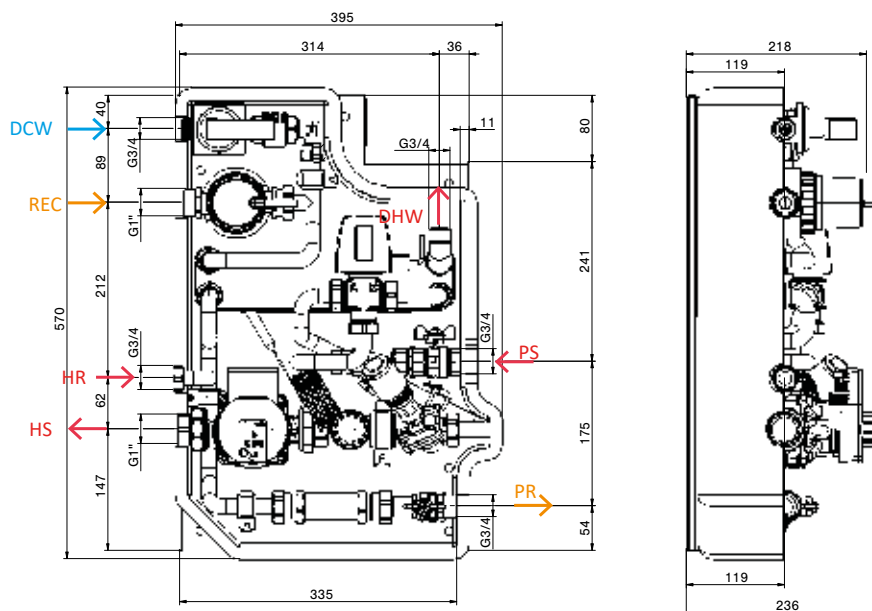
DESCRIPTION

- Plate heat exchanger 53 kW
- Priority valve for domestic water circuit
- Dynamic balancing valve (180÷1080 l/h adjustable range) with Normally Closed actuator with ON/OFF control (230 VAC power supply)
- "Pre-installation" stub for system testing and/or flushing and subsequent installation of the calorie/frigor meter 130 mm (1") interaxis DN20
- Impurity-removing strainer
- Fixed point mixing valve (20÷50 °C setting)
- **Heat pump**
- Copper fittings for component connection
- Insulation shell
- Metal plate for wall mounting

Code	Type	Price €	Unit/Box
650 0637	53 kW		1/1

HEAT-EVO1 HEAT-EVO2

DIMENSIONAL DIAGRAM FUNCTIONAL DIAGRAM



Abbrev.	Description
DHW	Domestic hot water
DCW	Domestic cold water
REC	Recirculation (heat-EVO1 only)
HS	Heating supply

Abbrev.	Description
HR	Heating return
PS	Primary supply
PR	Primary return

10_H HEAT-EVO METERING SYSTEM

INSTALLATION COMPONENTS



HEAT-EVO3

Metering module with outlet for high temperature heating (for radiators) and DHW recirculation pump

DESCRIPTION

- Plate heat exchanger 53 kW
- Priority valve for domestic water circuit
- **Domestic water recirculation pump**
- Dynamic balancing valve (180÷1080 l/h adjustment) with Normally Closed actuator with ON/OFF control (230 VAC power supply)
- "Pre-installation" stub for system testing and/or flushing and subsequent installation of the calorie/frigory meter 130 mm (1") interaxis DN20
- Impurity-removing strainer
- Copper fittings for component connection
- Insulation shell
- Metal plate for wall mounting

Code	Type	Price €	Unit/Box
650 0638	53 kW		1/1



HEAT-EVO4

Metering module with outlet for high temperature heating (for radiators)

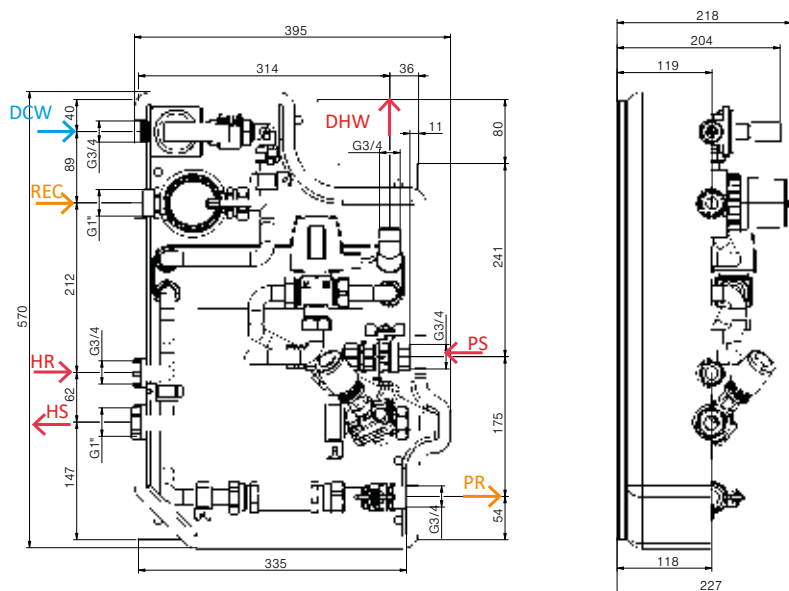
DESCRIPTION

- Plate heat exchanger 53 kW
- Priority valve for domestic water circuit
- Dynamic balancing valve (180÷1080 l/h adjustment) with Normally Closed actuator with ON/OFF control (230 VAC power supply)
- "Pre-installation" stub for system testing and/or flushing and subsequent installation of the calorie/frigory meter 130 mm (1") interaxis DN20
- Impurity-removing strainer
- Copper fittings for component connection
- Insulation shell
- Metal plate for wall mounting

Code	Type	Price €	Unit/Box
650 0639	53 kW		1/1

HEAT-EVO3 HEAT-EVO4

DIMENSIONAL DIAGRAM FUNCTIONAL DIAGRAM



Abbrev.	Description
DHW	Domestic hot water
DCW	Domestic cold water
REC	Recirculation (heat-EVO3 only)
HS	Heating supply

Abbrev.	Description
HR	Heating return
PS	Primary supply
PR	Primary return

10_H HEAT-EVO METERING SYSTEM

INSTALLATION COMPONENTS



HEAT-EVO1DYN

Metering module with outlet for low temperature heating (with mixing) for radiant systems, pump for heating system and pump for DHW recirculation

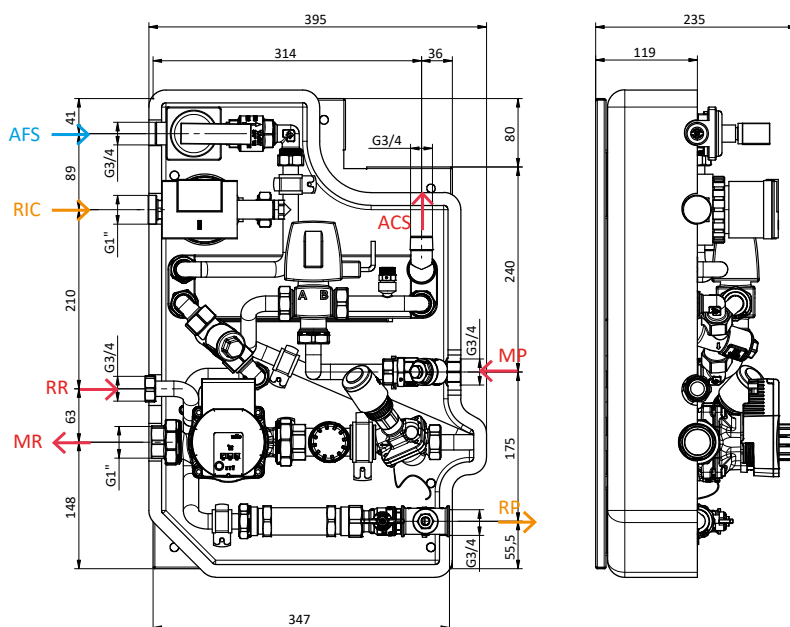
DESCRIZIONE

- Plate heat exchanger 53 kW
- Priority valve for domestic water circuit
- **Domestic water recirculation pump**
- Dynamic balancing valve (ΔP 10÷25 kPa/ 65÷920 l/h adjustment) with Normally Closed actuator with ON/OFF control (230 VAC power supply)
- Dynamic balancing valve for DHW (529÷1470 l/h adjustment)
- "Pre-installation" stub for system testing and/or flushing and subsequent installation of the calorie/frigory meter 130 mm (1") interaxis DN20
- Impurity-removing strainer
- Fixed point mixing valve (20÷50 °C setting)
- **Heat pump**
- Copper fittings for component connection
- Insulation shell
- Metal plate for wall mounting

Code	Type	Price €	Unit/Box
650 0688	53 kW		1/1

HEAT-EVO1DYN

DIMENSIONAL DIAGRAM FUNCTIONAL DIAGRAM



Abbrev.	Description
ACS	Domestic hot water
AFS	Domestic cold water
RIC	Recirculation
MR	Heating supply

Abbrev.	Description
RR	Heating return
MP	Primary supply
RP	Primary return



6560CW 6560C

Compact single-jet calorie/energy meter for local reading, M-Bus remote reading and wireless reading.



TECHNICAL SPECIFICATIONS

- Brass casing with 8-digit LCD display electronic unit, 360° positionable and detachable from main body (cable length 50 cm)
- Communication interfaces: Wireless M-Bus + 3 pulse inlets, M-Bus + 3 pulse inlets, local reading + 3 pulse inlets
- 3V Lithium Battery, 10 years service life (replaceable) - setup for external power supply via 3V power supply
- Pt1000 platinum temperature probes
- Nominal pressure: PN16
- Maximum operating temperature: 90 °C
- Protection rating: IP65
- Certified according to Directive 2014/32/EU (Annex MI-004)



Equipped with 3 pulse inlets



For installation on horizontal or vertical pipes



If used in conjunction with cooled water, the detachable electronics may be attached to the bottom of the housing/shaft in order to avoid possible occurrences of condensation.

Code	Size	Type	Price €	Unit/Box
651 0022	DN20 (1")* Qp = 2.5 m³/h	Local reading		1/6
651 0023	DN20 (1")* Qp = 2.5 m³/h	M-Bus reading		1/6
651 0492	DN20 (1")* Qp = 2.5 m³/h	Wireless reading		1/6

* Size of thread body



6560CUW 6568C

Compact ultrasonic calorie/energy meter for local reading, M-Bus remote reading and wireless reading.



TECHNICAL SPECIFICATIONS

- Brass casing with 8-digit LCD display electronic unit, 360° positionable and detachable from main body (cable length 85 cm)
- Communication interfaces: Wireless M-Bus + 3 pulse inlets, M-Bus + 3 pulse inlets, local reading + 3 pulse inlets
- 3V Lithium Battery, 10 years service life (replaceable) - setup for external power supply via 3V power supply
- Pt1000 platinum temperature probes
- Nominal pressure: PN16
- Maximum operating temperature: 90 °C
- Protection rating: IP65
- Certified according to Directive 2014/32/EU (Annex MI-004)



Equipped with 3 pulse inlets



Provides greater durability and accuracy over time, thanks to the absence of moving parts



For installation on horizontal or vertical pipes



If used in conjunction with cooled water, the detachable electronics may be attached to the bottom of the housing/shaft in order to avoid possible occurrences of condensation.

Code	Size	Type	Price €	Unit/Box
651 0601	DN20 (1")* Qp = 2.5 m³/h	Local reading		1/1
651 0056	DN20 (1")* Qp = 2.5 m³/h	M-Bus reading		1/1
651 0494	DN20 (1")* Qp = 2.5 m³/h	Wireless reading		1/6

* Size of thread body

10, TECHNO SEP METERING SYSTEM

INTRODUCTION

Metering module for heating/cooling and domestic water circuits with hydraulic separator **suitable for thermal systems where flow rates and operating temperatures are significantly different**. Set-up for fixed-point or climatic adjustment.

Equipped with a two or three module hydraulic separator able to separate the primary circuit from the secondary circuit. Available in different configurations depending on system requirements. Available for versions which allow for the simultaneous management of high and low temperature is a double circulation pump for secondary branch-off in high temperature and low temperature or with single pump on low temperature with direct high temperature circuit. The secondary branch-off may be managed with thermostatic mixing valve and low temperature recirculation or direct recirculation without mixing.



- | | |
|---|---|
| 1. Shut-off valve | 11. Relief valve |
| 2. Dirt collector filter with delivery temperature probe holder | 12. Hydraulic separator |
| 3. Heating-cooling system flow rate control valve | 13. Metal housing with locking cover and supports |
| 4. Control bypass | 14. Actuator |
| 5. Domestic cold water meter | 15. Mixing valve |
| 6. Domestic hot water meter | 16. High efficiency pump |
| 7. Compact thermal energy meter | 17. Load-unload valve |
| 8. Static balancing valve | 18. Probe holder well |
| 9. Lockshield valve | 19. Motorized 3-way zone valve |
| 10. Thermometer manometer | |

10, TECHNO SEP METERING SYSTEM

INSTALLATION COMPONENTS



6506C02

Metering module with three-module separator and low and high temperature distribution. Complete with booster pump for low temperature secondary branch-off and booster pump for high temperature secondary branch-off

DESCRIPTION

- Galvanized steel housing complete with painted frame and cover in white RAL 9010
 - Dimensions (WxHxD) 750 x 750 x 140 ÷ 190 mm
- 3-module hydraulic separator complete with thermomanometer, system load/unload valve and air vent valve
- Ball shut-off valves 3/4" M fittings
- Primary circuit branch-off with 3-way zone valve with motorized adjustable bypass (supply 230 VAC), delivery probe holder well and "pre-installation" stub for testing and/or flushing system and subsequent installation of the calorie/frigor meter 130 mm (1") interaxle DN20, static balancing valve, lockshield valve
- Secondary low temperature distribution circuit branch-off with thermostatic mixing valve and high efficiency circulating pump (EEI <0.23)
- High temperature distribution secondary circuit branch-off high efficiency circulating pump (EEI <0.23)
- Domestic hot and cold water distribution branch-offs with "pre-installation" stubs for system testing and/or flushing and subsequent installation of 110 mm (3/4") interaxle DN15 meters

i Thermostatic/electrothermal control not included

Code	Type	Price €	Unit/Box
650 0373	3M LT-HT		1/1



6506C03

Metering module with two-module separator and low and high temperature distribution. With pump for secondary branch-off in low temperature. Direct high temperature circuit secondary branch-off without circulation pump

DESCRIPTION

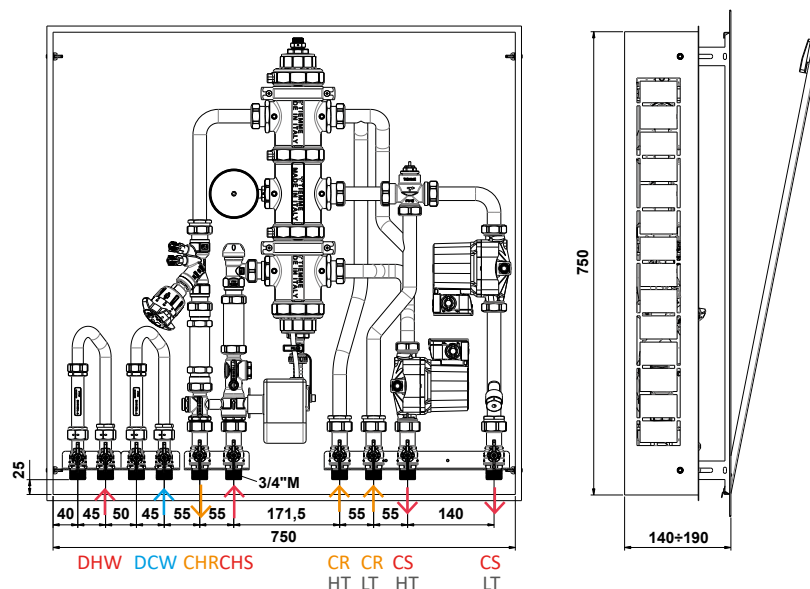
- Galvanized steel housing with painted frame and cover in white RAL 9010
 - Dimensions (WxHxD) 750 x 750 x 140 ÷ 190 mm
- 2-module hydraulic separator with system load/unload valve and air vent valve
- Ball shut-off valves 3/4" M fittings
- Primary circuit branch-off with 3-way zone valve with motorized adjustable bypass (supply 230 VAC), delivery probe holder well and "pre-installation" stub for testing and/or flushing system and subsequent installation of the calorie/frigor meter 130 mm (1") interaxle DN20, static balancing valve, lockshield valve
- Secondary low temperature distribution circuit branch-off with thermostatic mixing valve and high efficiency circulating pump (EEI <0.23)
- High temperature distribution secondary circuit branch-off without circulating pump (direct recirculation from central heating system)
- Domestic hot and cold water distribution trunks "pre-installation" for testing and/or flushing system and subsequent installation of 110 mm DN15 (3/4") interaxle counters

i Thermostatic/electrothermal control not included

Code	Type	Price €	Unit/Box
650 0374	2M LT-HT		1/1

6506C02 6506C03

DIMENSIONAL DIAGRAM FUNCTIONAL DIAGRAM



Abbrev.	Description
CHS	Central heating supply
CHR	Central heating return
CS	Consumer supply

Abbrev.	Description
CR	Consumer return
DHW	Domestic hot water
DCW	Domestic cold water

Abbrev.	Description
LT	Low temperature
HT	High temperature

10, TECHNO SEP METERING SYSTEM

INSTALLATION COMPONENTS



6506C04

Metering module with two-module separator and low temperature distribution. With thermostatic mixing valve and secondary booster pump

DESCRIPTION

- Galvanized steel housing with painted frame and cover in white RAL 9010
- Dimensions (WxHxD) 750 x 750 x 140 ÷ 190 mm
- 2-module hydraulic separator with system load/unload valve and air vent valve
- Ball shut-off valves 3/4" M fittings
- Primary circuit branch-off with 3-way zone valve with motorized adjustable bypass (power supply 230 VAC), delivery probe holder well and "pre-installation" stub for testing and/or flushing system and subsequent installation of the calorie/frigory meter 130 mm (1") interaxle DN20, static balancing valve, lockshield valve
- Secondary low temperature distribution circuit branch-off with thermostatic mixing valve and high efficiency circulating pump (EEI <0.23)
- Domestic hot and cold water distribution branch-offs with "pre-installation" stubs for system testing and/or flushing and subsequent installation of 110 mm (3/4") interaxle DN15 meters

 Thermostatic/electrothermal control not included

Code	Type	Price €	Unit/Box
650 0375	2M LT		1/1



6506C05

Metering module with two-module separator and low or high temperature distribution. Without secondary mixing. With secondary circuit pump

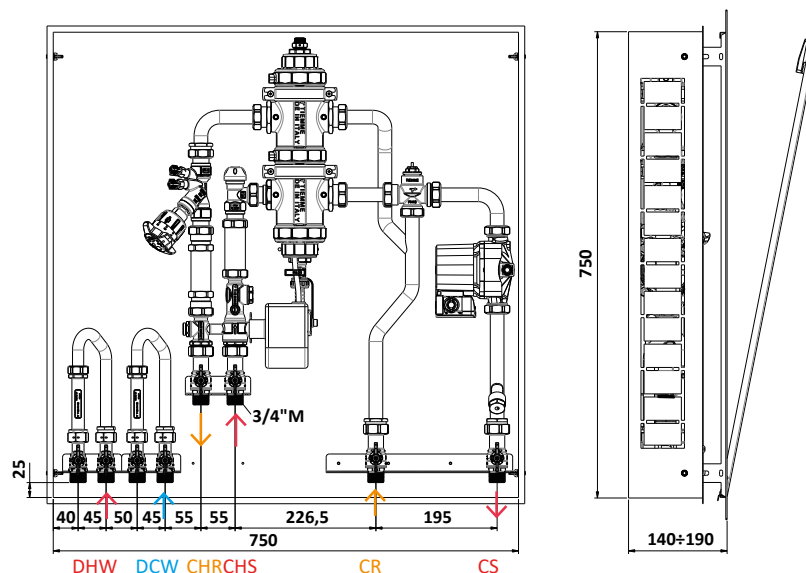
DESCRIPTION

- Galvanized steel housing with painted frame and cover in white RAL 9010
- Dimensions (WxHxD) 750 x 750 x 140 ÷ 190 mm
- 2-module hydraulic separator with system load/unload valve and air vent valve
- Ball shut-off valves 3/4" M fittings
- Primary circuit branch-off, with 3-way zone valve with motorized adjustable bypass (230 VAC supply), delivery probe holder well and "pre-installation" stub for testing and/or flushing and subsequent installation of the calorie/frigory meter 130 mm interaxle DN20 (1"), static balancing valve, lockshield valve.
- Secondary distribution circuit in low or high temperature branch-off with high efficiency circulating pump (EEI <0.23)
- Domestic hot and cold water distribution branch-offs with "pre-installation" stubs for system testing and/or flushing and subsequent installation of 110 mm (3/4") interaxle DN15 meters

Code	Type	Price €	Unit/Box
650 0376	2M LT OR HT		1/1

6506C04 6506C05

DIMENSIONAL DIAGRAM FUNCTIONAL DIAGRAM



Abbrev.	Description	Abbrev.	Description
CHS	Central heating supply	CR	Consumer return
CHR	Central heating return	DHW	Domestic hot water
CS	Consumer supply	DCW	Domestic cold water



6560CW 6560C

Compact single-jet calorimeter/energy meter for local reading, M-Bus remote reading and wireless reading.



TECHNICAL SPECIFICATIONS

- Brass casing with 8-digit LCD display electronic unit, 360° positionable and detachable from main body (cable length 50 cm)
- Communication interfaces: Wireless M-Bus + 3 pulse inlets, M-Bus + 3 pulse inlets, local reading + 3 pulse inlets
- 3V Lithium Battery, 10 years service life (replaceable) - setup for external power supply via 3V power supply
- Pt1000 platinum temperature probes
- Nominal pressure: PN16
- Maximum operating temperature: 90 °C
- Protection rating: IP65
- Certified according to Directive 2014/32/EU (Annex MI-004)

Equipped with 3 pulse inlets

For installation on horizontal or vertical pipes

If used in conjunction with cooled water, the detachable electronics may be attached to the bottom of the housing/shaft in order to avoid possible occurrences of condensation.

Code	Size	Type	Price €	Unit/Box
651 0022	DN20 (1")* Qp = 2.5 m³/h	Local reading		1/6
651 0023	DN20 (1")* Qp = 2.5 m³/h	M-Bus reading		1/6
651 0492	DN20 (1")* qp = 2,5 m³/h	Wireless reading		1/6

* Size of thread body



6560CUW 6568C

Compact ultrasonic calorimeter/energy meter for local reading, M-Bus remote reading and wireless reading.



TECHNICAL SPECIFICATIONS

- Brass casing with 8-digit LCD display electronic unit, 360° positionable and detachable from main body (cable length 85 cm)
- Communication interfaces: Wireless M-Bus + 3 pulse inlets, M-Bus + 3 pulse inlets, local reading + 3 pulse inlets
- 3V Lithium Battery, 10 years service life (replaceable) - setup for external power supply via 3V power supply
- Pt1000 platinum temperature probes
- Nominal pressure: PN16
- Maximum operating temperature: 90 °C
- Protection rating: IP65
- Certified according to Directive 2014/32/EU (Annex MI-004)

Equipped with 3 pulse inlets

Ensures greater durability and accuracy over time, thanks to the absence of moving parts

For installation on horizontal or vertical pipes

If used in conjunction with cooled water, the detachable electronics may be attached to the bottom of the housing/shaft in order to avoid possible occurrences of condensation.

Code	Size	Type	Price €	Unit/Box
651 0601	DN20 (1")* Qp = 2.5 m³/h	Local reading		1/1
651 0056	DN20 (1")* Qp = 2.5 m³/h	M-Bus reading		1/1
651 0494	DN20 (1")* Qp = 2.5 m³/h	Wireless reading		1/6

* Size of thread body



6561C

Single-jet meter for hot or cold water with local or remote M-Bus reading



TECHNICAL SPECIFICATIONS

- Brass casing with direct reading on 8 numbered rollers: 5 (black) for cubic metres – 3 (red) for sub-multiples
- Maximum operating temperature:
 - 50 °C (domestic cold water model)
 - 90 °C (domestic hot water model)
- Nominal pressure (PN) 16 bar
- Certified according to Directive 2014/32/EU (Annex MI-001)

i For installation on horizontal or vertical pipes

i Configured for remote reading if combined with art. 6561E

Code	Size	Type	Price €	Unit/Box
651 0024	DN15 (3/4")* Q3 = 2.5 m³/h	domestic cold water		1/12
651 0026	DN15 (3/4")* Q3 = 2.5 m³/h	domestic hot water		1/12

* Size of thread body



6561E

Pulse emitter cable. 1/10 pulse/litre



TECHNICAL SPECIFICATIONS

- Cable length: 1 m

Code	Type	Price €	Unit/Box
651 0085	For 6561C		1/10



6561CR 6561HR

Single-jet meter for hot or cold water with local or wireless remote reading



TECHNICAL SPECIFICATIONS

- Brass casing with direct reading on 8 numbered rollers: 5 (black) for cubic metres – 3 (red) for sub-multiples
- Maximum operating temperature:
 - 50 °C (domestic cold water model)
 - 90 °C (domestic hot water model)
- Nominal pressure (PN) 16 bar
- Approved in accordance with Directive 2014/32/EU (Annex MI-001)

i For installation on horizontal or vertical pipes

i Configured for wireless data transmission when combined with art. 6561MR

Code	Size	Type	Price €	Unit/Box
651 0484	DN15 (3/4")* Q3 = 2.5 m³/h	domestic cold water		1/12
651 0514	DN15 (3/4")* Q3 = 2.5 m³/h	domestic hot water		1/12

* Size of thread body



6561MR

Compact radio module with integrated 868 MHz inductive wireless sensor WIRELESS M-Bus



TECHNICAL SPECIFICATIONS

- Power supply: lithium battery, service life 11+1 years
- Protection rating: IP67

Code	Type	Price €	Unit/Box
651 0486	For 6561CR - 6561HR		1/40

10, TECHNO SEP METERING SYSTEM

ACCESSORIES



9561TT

Kit for adjustable fixed point adjustment 20÷50°C.

Code	Type	Price €	Unit/Box
040 0179	Fixed point		1/1



5530P

NTC temperature probe 10KΩ @ 25°C, diameter 6 mm

Code	Type	Price €	Unit/Box
555 0149	-		1/10



9562

Electrothermal servocontrol for 3-way mixing valve.

Code	Type	Price €	Unit/Box
450 0383	24 VAC 0÷10 VDC		1/10



6506I3M

Thermoformed thermal insulation for "TECHNO SEP" metering module with 3-module hydraulic separator

DESCRIPTION

- Insulating shell material: PEX closed cell foam

Code	Type	Price €	Unit/Box
650 0419	6506C02		1/1



6506I2M

Thermoformed thermal insulation for "TECHNO SEP" metering module with 2-module hydraulic separator

DESCRIPTION

- Insulating shell material: PEX closed cell foam

Code	Type	Price €	Unit/Box
650 0414	6506C03, 6506C04, 6506C05		1/1



2075

Adjustable touch thermostat

TECHNICAL SPECIFICATIONS

- Adjustment range: 0-90°C
- Outlet: Voltage-free changeover contacts 16(4) TO/250 VAC-6(1) TO/400 VAC
- Protection rating IP40
- Differential: 6 ± 2°C
- Fastening spring included

Code	Type	Price €	Unit/Box
957 0001	0/90°C		1/20

11

DIRECT METERING METERS

11A Meters - introduction

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11B Thermal energy meters



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11C Domestic water meters



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11_A METERS - INTRODUCTION

Meters are instruments used to measure thermal energy and domestic water usage.

The particularly wide range permits their application both in domestic-type systems and in industrial-type systems.

Available in local reading, M-Bus or wireless versions.

M-Bus-enabled meters allow the transfer of tracking data to a data concentrator.

The wireless version means the transfer of data to a radio device at 868 MHz, in line with WIRELESS M-Bus (EN 13757) standards and with the benefit of installation and remote reading even in existing buildings without the need for costly masonry work.



11_B THERMAL ENERGY METERS

COMPACT SINGLE-JET MECHANICAL METER

COMPACT ULTRASONIC METER



6560CW 6560C

Compact single-jet calorie/frigory meter for local reading, M-Bus remote reading and wireless reading.



TECHNICAL SPECIFICATIONS

- Brass casing with 8-digit LCD display electronic unit, 360° positionable and detachable from main body (cable length 50 cm)
- Communication interfaces: Wireless M-Bus + 3 pulse inlets, M-Bus + 3 pulse inlets, local reading + 3 pulse inlets
- 3V Lithium Battery, 10 years service life (replaceable) - setup for external power supply via 3V power supply
- Pt1000 platinum temperature probes
- Nominal pressure: PN16
- Maximum operating temperature: 90 °C
- Protection rating: IP65
- Certified according to Directive 2014/32/EU (Annex MI-004)

Equipped with 3 pulse inlets

For installation on horizontal or vertical pipes

If used in conjunction with cooled water, the detachable electronics may be attached to the bottom of the housing/shaft in order to avoid possible occurrences of condensation.

To be combined with:
• Probe holder well "wet" mounted (art.3670PS).

Code	Size	Type	Price €	Unit/Box
651 0020	DN15 (3/4")* Qp = 1.5 m³/h	Local reading		1/6
651 0021	DN15 (3/4")* Qp = 1.5 m³/h	M-Bus reading		1/6
651 0491	DN15 (3/4")* Qp = 1.5 m³/h	Wireless reading		1/6
651 0022	DN20 (1")* Qp = 2.5 m³/h	Local reading		1/6
651 0023	DN20 (1")* Qp = 2.5 m³/h	M-Bus reading		1/6
651 0492	DN20 (1")* Qp = 2.5 m³/h	Wireless reading		1/6

* Size of thread body



6560CUW 6568C

Compact ultrasonic calorie/frigory meter for local reading, M-Bus remote reading and wireless reading.



TECHNICAL SPECIFICATIONS

- Brass casing with 8-digit LCD display electronic unit, 360° positionable and detachable from main body (cable length 85 cm)
- Communication interfaces: Wireless M-Bus + 3 pulse inlets, M-Bus + 3 pulse inlets, local reading + 3 pulse inlets
- 3V Lithium Battery, 10 years service life (replaceable) - setup for external power supply via 3V power supply
- Pt1000 platinum temperature probes
- Nominal pressure: PN16
- Maximum operating temperature: 90 °C
- Protection rating: IP65
- Certified according to Directive 2014/32/EU (Annex MI-004)

Equipped with 3 pulse inlets

Provides greater durability and accuracy over time, thanks to the absence of moving parts

For installation on horizontal or vertical pipes

If used in conjunction with cooled water, the detachable electronics may be attached to the bottom of the housing/shaft in order to avoid possible occurrences of condensation.

To be combined with:
• Probe holder well "wet" mounted (art.3670PS).

Code	Size	Type	Price €	Unit/Box
651 0600	DN15 (3/4")* Qp = 1.5 m³/h	Local reading		1/1
651 0055	DN15 (3/4")* Qp = 1.5 m³/h	M-Bus reading		1/1
651 0493	DN15 (3/4")* Qp = 1.5 m³/h	Wireless reading		1/6
651 0601	DN20 (1")* Qp = 2.5 m³/h	Local reading		1/1
651 0056	DN20 (1")* Qp = 2.5 m³/h	M-Bus reading		1/1
651 0494	DN20 (1")* Qp = 2.5 m³/h	Wireless reading		1/6

* Size of thread body

11_B THERMAL ENERGY METERS

HIGH FLOW RATE METERS - SEPARATE ELECTRONICS



6562T

Multiple-jet, super dry, magnetic transmission meter, pulse outlet 1/10 imp/l.



TECHNICAL SPECIFICATIONS

- Brass casing
- Protective metal cap
- Rotatable totalizer for ease of reading
- Inlet filter
- Equipped with reed switch pulse emitter
- Maximum operating temperature: 90 °C
- Nominal pressure: PN16
- Certified according to Directive 2014/32/EU (Annex MI-004)

i For installation on horizontal pipes

To be combined with:

- Separate electronics for local reading, M-Bus or wireless (art. 6564C)
- Pair of temperature probes PT500 for "dry" mounting (art.6565SA) or "wet" mounting (art.6565SB) and corresponding pair of probe holder wells "dry" mount (art.6567C) o "wet" mount (art.3670PS).

Code	Size	Pulse outlet	Price €	Unit/ Box
651 0488	DN25 (1"1/4)* Qp = 3.5 m³/h	1/10 imp/l		1/2
651 0502	DN32 (1"1/2)* Qp = 6 m³/h	1/10 imp/l		1/2
651 0503	DN40 (2")* Qp = 10 m³/h	1/10 imp/l		1/2
651 0504	DN50 (2" 3/8)* Qp = 15 m³/h	1/10 imp/l		1/1

* Size of thread body



6563CC130

Woltmann flanged series thermal energy meter.



TECHNICAL SPECIFICATIONS

- Cast iron casing, internally and externally powder coated
- Hermetically-sealed clockwork (IP68) and fully 360 degrees rotatable
- Removable measuring element
- Supplied with reed switch pulse emitter (IP66 and 3 m cable)
- Reed switch electrical features: max. 24 V, 0.2 A, max. 4W
- Maximum operating temperature 130/120 °C
- Nominal pressure: PN16
- Certified according to Directive 2014/32/EU (Annex MI-004)

i For installation on horizontal or vertical pipes

To be combined with:

- Separate electronics for local reading, M-Bus or wireless (art. 6564C)
- Pair of temperature probes PT500 for "dry" mounting (art.6565SA) and corresponding pair of probe holder wells "dry" mount (art.6567C)

Code	Size	Pulse outlet	Price €	Unit/ Box
651 0509	DN50 Qp = 15 m³/h	1/100 imp/l		1/1
651 0510	DN65 Qp = 25 m³/h	1/100 imp/l		1/1
651 0511	DN80 Qp = 40 m³/h	1/100 imp/l		1/1
651 0512	DN100 Qp = 60 m³/h	1/100 imp/l		1/1
651 0643	DN125 Qp = 100 m³/h	1/100 imp/l		1/1
651 0644	DN150 Qp = 150 m³/h	1/1000 imp/l		1/1
651 0645	DN200 Qp = 200 m³/h	1/1000 imp/l		1/1

11_B THERMAL ENERGY METERS

ULTRASONIC HIGH FLOW RATE METERS - SEPARATE ELECTRONICS




6569CW


Ultrasonic thermal energy meter with flanged fittings PN25. Suitable for industrial installation



TECHNICAL SPECIFICATIONS

- Maximum operating temperature 130 °C
- Nominal pressure: PN25
- With electronics - cable length 2m
- Battery powered, service life 10 years
- Protection rating IP65

 Provides greater durability and accuracy over time, thanks to the absence of moving parts

 For installation on horizontal or vertical pipes

To be combined with:

- Separate electronics for local reading, M-Bus or wireless (art. 6564C)
- Pair of temperature probes PT500 for "dry" mounting (art.6565SA) or "wet" mounting (art.6565SB) and corresponding pair of probe holder wells "dry" mount (art.6567C) o "wet" mount (art.3670PS).

Code	Size	Pulse outlet	Price €	Unit/ Box
651 0496	DN25 Qp = 6 m³/h	1/10 imp/l		1/1
651 0497	DN40 Qp = 10 m³/h	1/10 imp/l		1/1
651 0498	DN50 Qp = 15 m³/h	1/25 imp/l		1/1
651 0499	DN65 Qp = 25 m³/h	1/25 imp/l		1/1
651 0500	DN80 Qp = 40 m³/h	1/100 imp/l		1/1
651 0501	DN100 Qp = 60 m³/h	1/100 imp/l		1/1

11_B THERMAL ENERGY METERS

ACCESSORIES



6564C

Separate electronic unit for combined heat energy meters.



TECHNICAL SPECIFICATIONS

- Calorie and frigory measurement
- 3V replaceable lithium battery, 10 year service life
- Communication interfaces: Wireless M-Bus + 3 pulse inlets, M-Bus + 3 pulse inlets, volume and energy pulse outlet, calorie and frigory pulse outlet
- IP65 rating
- Settable annual reading date, 15 monthly values viewable on display, 24 monthly values viewable via optical interface or M-Bus
- Dimensions (WxHxD): 150 x 130 x 35 mm

i Programmable pulse factor: to be programmed before installation according to the combined meter pulse features

Code	Type	Price €	Unit/Box
651 0642	Local reading, programmable		1/4
651 0046	M-Bus reading, programmable		1/4
6510495	Wireless reading, programmable		1/4



6565SA

Temperature probe pair PT500 (EN 60751) for wells 6567C ('dry' mounting).

Code	Type	Price €	Unit/Box
651 0050	Ø 6 mm - 3 m		1/10
651 0615	Ø 6 mm - 10 m		1/5



6567C

Pair of probe holder wells ('dry' mounting)

Code	Type	Price €	Unit/Box
651 0052	DN32-DN65		1/100
651 0053	DN80-DN125		1/50
651 0054	DN150-DN200		1/10



6565SB

Temperature probe pair PT500 (EN 60751) for wells art. 3670PS ('wet' mounting).

Code	Type	Price €	Unit/Box
651 0049	Ø 5 mm - 3 m		1/10
651 0450	Ø 5 mm - 10 m		1/5



3670PS

Fitting with M10x1 fitting for temperature probe ('wet' mounting).

Code	Type	Price €	Unit/Box
651 0015	3/4"		18/54
651 0016	1"		10/30
651 0017	1"1/4		4/16



1522

Union kit

i The kit includes: 2 tails, 2 nuts and 2 gaskets

Code	Ø Meter	Ø Fitting	Price €	Unit/Box
150 0035	3/4" F	1/2" M		1/80
150 0042	1" F	3/4" M		1/40
150 0062	1"1/4 F	1" M		1/20
150 0094	1"1/2 F	1"1/4 M		1/15
150 0072	2" F	1"1/2 M		1/10
150 0914	2"3/8 F	2" M		1/5
150 0101	2"1/2 F	2" M		1/5



6561TUSB

USB optical head for programming or parameter modification on heat cost allocators and meters.

i It also includes pairing to programming software for installation on PC. For more information contact the Tiemme Systems Department.

Code	Type	Price €	Unit/Box
651 0051	for 6560CW- 6560C - 6560CUW - 6568C		1/10

11c DOMESTIC WATER METERS

LOCAL READING/M-BUS VOLUMETRIC METER



6561C

Single-jet meter for hot or cold water with local or remote M-Bus reading



TECHNICAL SPECIFICATIONS

- Brass casing with direct reading on 8 numbered rollers: 5 (black) for cubic meters – 3 (red) for sub-multiples
- Maximum operating temperature:
 - 50 °C (domestic cold water model)
 - 90 °C (domestic hot water model)
- Nominal pressure (PN) 16 bar
- Certified according to Directive 2014/32/EU (Annex MI-001)

i For installation on horizontal or vertical pipes

i Configured for remote reading if combined with art. 6561E

Code	Size	Type	Price €	Unit/Box
651 0024	DN15 (3/4")* Q3 = 2.5 m³/h	domestic cold water		1/12
651 0026	DN15 (3/4")* Q3 = 2.5 m³/h	domestic hot water		1/12
651 0028	DN20 (1")* Q3 = 4 m³/h	domestic cold water		1/12
651 0030	DN20 (1")* Q3 = 4 m³/h	domestic hot water		1/12

* Size of thread body

ACCESSORIES AND SPARE PARTS



6561E

Pulse emitter cable. 1/10 pulse/liter.



TECHNICAL SPECIFICATIONS

- Cable length: 1 m

Code	Type	Price €	Unit/Box
651 0085	For 6561C		1/10



6561CR 6561HR

Single-jet meter for hot or cold water with local or wireless remote reading



TECHNICAL SPECIFICATIONS

- Brass casing with direct reading on 8 numbered rollers: 5 (black) for cubic meters – 3 (red) for sub-multiples
- Maximum operating temperature:
 - 50 °C (domestic cold water model)
 - 90 °C (domestic hot water model)
- Nominal pressure (PN) 16 bar
- Approved in accordance with Directive 2014/32/EU (MID MI-001)

i For installation on horizontal or vertical pipes

i Configured for wireless data transmission when combined with art. 6561MR

Code	Size	Type	Price €	Unit/Box
651 0484	DN15 (3/4")* Q3 = 2.5 m³/h	domestic cold water		1/12
651 0514	DN15 (3/4")* Q3 = 2.5 m³/h	domestic hot water		1/12
651 0513	DN20 (1")* Q3 = 4 m³/h	domestic cold water		1/12
651 0515	DN20 (1")* Q3 = 4 m³/h	domestic hot water		1/12

* Size of thread body

ACCESSORIES AND SPARE PARTS



6561MR

Compact radio module with integrated 868 MHz WIRELESS M-Bus inductive wireless sensor.



TECHNICAL SPECIFICATIONS

- Power supply: lithium battery, service life 11+1 years
- Protection rating: IP67

Code	Type	Price €	Unit/Box
651 0486	For 6561CR - 6561HR		1/40



6561MM

Compact M-BUS module



TECHNICAL SPECIFICATIONS

- Power supply: lithium battery, service life up to 12 years (with power supply M-Bus)
- Protection rating: IP68

+ Directly connectible to the M-Bus network

Code	Type	Price €	Unit/Box
651 0934	For 6561CR - 6561HR		1/50

11c DOMESTIC WATER METERS

HIGH FLOW RATE DOMESTIC COLD WATER VOLUMETRIC METER



6561D

Local reading multiple-jet meter for domestic cold water for high flow rate equipped with pulse emitter 1/10 pul/l for M-Bus remote reading



TECHNICAL SPECIFICATIONS

- Brass casing
- Equipped with pulse emitter cable (pulse emitter type: reed - switch - Pulse factor: 1 pulse every 10 liters)
- Rotatable totalizer for ease of reading
- Inlet filter
- Maximum operating temperature: 50 °C
- Nominal pressure: PN16
- Certified according to Directive 2014/32/EU (Annex MI-001)

i For installation on horizontal pipes

i Configured for wireless data transmission when combined with art. 6583MR

Code	Size	Pulse outlet	Price €	Unit/Box
651 0516	DN25 (1" 1/4)* Q3 = 6.3 m³/h	1/10 imp/l		1/2
651 0517	DN32 (1" 1/2)* Q3 = 10 m³/h	1/10 imp/l		1/2
651 0518	DN40 (2")* Q3 = 16 m³/h	1/10 imp/l		1/2
651 0519	DN50 (2" 1/2)* Q3 = 25 m³/h	1/10 imp/l		1/2

* Size of thread body

ACCESSORIES AND SPARE PARTS



6583MR

Wireless M-bus module.



TECHNICAL SPECIFICATIONS

- Frequency: 868/915 MHz
- Mode of data transmission: T1 (EN 13757)
- Management: inlet pulses, direction signals and alarms (handling, removal or presumed leaking)
- Configuration: via radio
- Power supply: lithium battery 3 V, service life 12 years
- Protection rating: IP68

Code	Type	Price €	Unit/Box
651 0532	for 6561D - 6562D - 6563CF		1/60



6562D

Local reading multiple-jet meter for domestic cold water for high flow rate equipped with pulse emitter 1/10 pul/l for M-Bus remote reading



TECHNICAL SPECIFICATIONS

- Brass casing
- Equipped with pulse emitter cable (pulse emitter type: reed - switch - Pulse factor: 1 pulse every 10 liters)
- Rotatable totalizer for ease of reading
- Inlet filter
- Maximum operating temperature: 90 °C
- Nominal pressure: PN16
- Certified according to Directive 2014/32/EU (Annex MI-001)

i For installation on horizontal pipes

i Configured for wireless data transmission when combined with art. 6583MR

Code	Size	Pulse outlet	Price €	Unit/Box
651 0520	DN25 (1" 1/4)* Q3 = 6.3 m³/h	1/10 imp/l		1/2
651 0521	DN32 (1" 1/2)* Q3 = 10 m³/h	1/10 imp/l		1/1
651 0522	DN40 (2")* Q3 = 16 m³/h	1/10 imp/l		1/1
651 0523	DN50 (2" 1/2)* Q3 = 25 m³/h	1/10 imp/l		1/1

* Size of thread body

ACCESSORIES AND SPARE PARTS



6583MR

Wireless M-bus module.



TECHNICAL SPECIFICATIONS

- Frequency: 868/915 MHz
- Mode of data transmission: T1 (EN 13757)
- Management: inlet pulses, direction signals and alarms (handling, removal or presumed leaking)
- Configuration: via radio
- Power supply: lithium battery 3 V, service life 12 years
- Protection rating: IP68

Code	Type	Price €	Unit/Box
651 0532	for 6561D - 6562D - 6563CF		1/60

11c DOMESTIC WATER METERS

WOLTMANN FLANGED SERIES DOMESTIC COLD WATER METER



6563CF

Woltmann axial volumetric meter for domestic cold water up to 50° C flanged.



TECHNICAL SPECIFICATIONS

- Cast iron casing
- Clockwork with glass disc and copper capsule (IP68)
- Maximum operating temperature: 50 °C
- Nominal pressure: PN16
- Certified according to Directive 2014/32/EU (Annex MI-001)

i For installation on horizontal or vertical pipes

i Configured for remote reading if combined with art. 6583S

i Configured for wireless data transmission when combined with art. 6583S + art. 6583MR

Code	Size	Price €	Unit/Box
651 0524	DN50 Q3 = 40 m³/h		1/1
651 0525	DN65 Q3 = 63 m³/h		1/1
651 0526	DN80 Q3 = 100 m³/h		1/1
651 0527	DN100 Q3 = 160 m³/h		1/1

ACCESSORIES AND SPARE PARTS



6583S

Reed sensor for Woltmann meters.

1/100 pulse/liter.



TECHNICAL SPECIFICATIONS

- Contact type: reed switch (normally closed)
- Maximum permissible load 24 VAC - 0.1 A
- Protection rating: IP68
- Cable type: 2 x 0.25 mm²
- Cable length: 2 m
- Operating temperature: -25 °C ÷ +90 °C
- Storage temperature: -40 °C ÷ +90 °C

Code	Type	Price €	Unit/Box
651 0533	For 6563CF		1/40



6583MR

Wireless M-bus module.



TECHNICAL SPECIFICATIONS

- Frequency: 868/915 MHz
- Mode of data transmission: T1 (EN 13757)
- Management: inlet pulses, direction signals and alarms (handling, removal or presumed leaking)
- Configuration: via radio
- Power supply: lithium battery 3 V, service life 12 years
- Protection rating: IP68

Code	Type	Price €	Unit/Box
651 0532	for 6561D - 6562D - 6563CF		1/60

11c DOMESTIC WATER METERS

ACCESSORIES



6561E

Pulse emitter cable. 1/10 pulse/liter.



TECHNICAL SPECIFICATIONS

- Cable length: 1 m

Code	Type	Price €	Unit/Box
651 0085	For 6561C		1/10



6561MM

Compact M-BUS module



TECHNICAL SPECIFICATIONS

- Power supply: lithium battery, service life up to 12 years (with power supply M-Bus)
- Protection rating: IP68



Directly connectible to the M-Bus network

Code	Type	Price €	Unit/Box
651 0934	For 6561CR - 6561HR		1/50



6561MR

Compact radio module with integrated 868 MHz WIRELESS M-Bus inductive wireless sensor.



TECHNICAL SPECIFICATIONS

- Power supply: lithium battery, service life 11+1 years
- Protection rating: IP67

Code	Type	Price €	Unit/Box
651 0486	For 6561CR - 6561HR		1/40



6561RS

Pulse emitter REED SWITCH type.
1/10 pulse/liter.



Code	Type	Price €	Unit/Box
651 0531	For 6561D		1/10



6583S

Reed sensor for Woltmann meters.
1/100 pulse/liter.



TECHNICAL SPECIFICATIONS

- Contact type: reed switch (normally closed)
- Maximum permissible load 24 VAC - 0.1 A
- Protection rating: IP68
- Cable type: 2 x 0.25 mm²
- Cable length: 2 m
- Operating temperature: -25 °C ÷ +90 °C
- Storage temperature: -40 °C ÷ +90 °C

Code	Type	Price €	Unit/Box
651 0533	For 6563CF		1/40



6583MR

Wireless M-bus module.



TECHNICAL SPECIFICATIONS

- Frequency: 868/915 MHz
- Mode of data transmission: T1 (EN 13757)
- Management: inlet pulses, direction signals and alarms (handling, removal or presumed leaking)
- Configuration: via radio
- Power supply: lithium battery 3 V, service life 12 years
- Protection rating: IP68

Code	Type	Price €	Unit/Box
651 0532	for 6561D - 6562D - 6563CF		1/60

11c DOMESTIC WATER METERS

ACCESSORIES



6575C

Pulse adapter on M-Bus for meter pairs.

Code	Type	Price €	Unit/Box
651 0074	-		1/10



6570C

Electrical connections housing (only box to facilitate connections).

Code	Type	Price €	Unit/Box
651 0064	SHORTY/VARIO/FLOOR		1/10
651 0065	HEAT		1/10



1522

Union kit

 The kit includes: 2 tails, 2 nuts and 2 gaskets

Code	Ø Meter	Ø Fitting	Price €	Unit/Box
150 0035	3/4" F	1/2" M		1/80
150 0042	1" F	3/4" M		1/40
150 0062	1"1/4 F	1" M		1/20
150 0094	1"1/2 F	1"1/4 M		1/15
150 0072	2" F	1"1/2 M		1/10
150 0914	2"3/8 F	2" M		1/5
150 0101	2"1/2 F	2" M		1/5



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