


GE552

Description

The GE552 volumetric single jet energy meter is characterised by its consistent accuracy over time and its remarkable operating safety; high precision measuring capability means that this device can be used across a wide range of applications. The meter is available in 3/4" versions (nominal flow rate of 0,6 or 1,5 m³/h) and 1" versions (nominal flow rate of 2,5 m³/h). It is equipped with a double register, and can therefore measure the thermal energy of both heating and cooling operations. The temperature range of the meter makes it ideal for metering energy consumption in residential buildings equipped with a centralised heating/conditioning system and zone distribution.

Versions and product codes

Product code	Connections	Centre to centre assembly distance [mm]	Nominal flow rate [m ³ /h]	Flow rate min. [l/h]	Flow rate max. [m ³ /h]
GE552Y158	3/4"	110	0,6	12	1,2
GE552Y159	3/4"	110	1,5	30	3,0
GE552Y160	1"	130	2,5	50	5,0

Main characteristics

Its particularly compact structure makes it suitable for any type of installation. The electronic part can be separated to allow installation in even the smallest metering cabinets. Easy to use, by means of one single key. The display is easy to read, and shows all the most important operating conditions. Its reliability and notable measuring performance ensure excellent measuring results throughout its working life. Thanks to the use of the most advanced electronics (free of electromagnetic interference), it satisfies all the current requisites in terms of measuring techniques for compact meters.

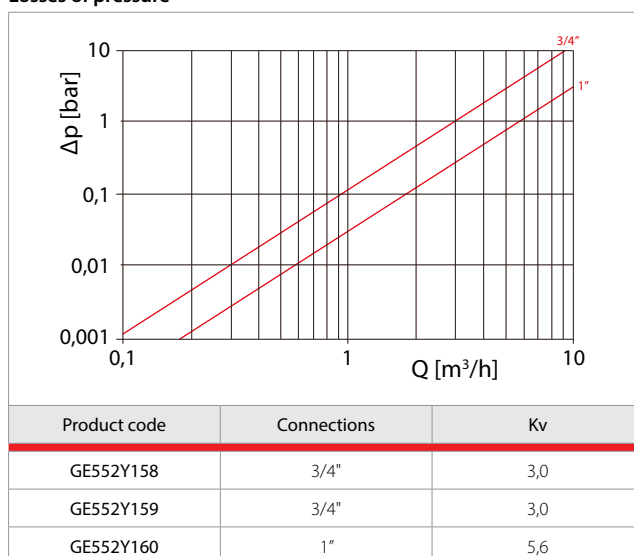
Technical data

Temperature probes		
Resistance to platinum	Pt1000	
Diameter and type of probe	5 mm (DS according to EN 1434)	
Temperature range [°C]	0÷105	
Cable length [m]	1,5	
Installation points	delivery	direct immersion or in immersion housings (existing systems)
	return	probe integrated in the volumetric part

Electronic part	
Temperature range [°C]	0÷105
Temperature difference range [K]	3÷80
Display	LCD with 8 figures + special symbols
Ambient temperature range [°C]	5÷55
Minimum temperature difference [K]	3
Measuring frequency [s]	30 seconds
Heat quantity representation	MWh
Data backup	Once a day
Interface	M-Bus
Power supply	3,6 V lithium battery
Battery lifespan	> 6 years
Protection class	IP54
EMV	C
Mechanical/electromagnetic class	M1 / E1
Accuracy class	3

Volumetric part			
Product code	GE552Y158	GE552Y159	GE552Y160
Nominal Qp flow rate [m ³ /h]	0,6	1,5	2,5
Maximum Qs flow rate [m ³ /h]	1,2	3,0	5,0
Minimum Qi horizontal flow rate [l/h]	12	30	50
Minimum Qi vertical flow rate [l/h]	12	30	50
Start-up horizontal flow rate [l/h]	4	4	5
Temperature range [°C]	10÷90		
Nominal pressure PN	16		
Pressure loss at Qp [bar]	< 0,25		
Nominal diameter DN	15	15	20
Length [mm]	110	110	130
Installation position	horizontal or vertical; NOT upside down		
Cable length [m]	1,2		
Installation point for the temperature probe	M10 x 1		
Fluid	water		

Losses of pressure



Product code	Connections	Kv
GE552Y158	3/4"	3,0
GE552Y159	3/4"	3,0
GE552Y160	1"	5,6



Start-up

- Open the valve slowly. Depressurise and rinse out the line, avoiding any water-hammers.
- If "sleep" mode is active on the meter (display SLEEP1), you can deactivate it by pressing the key and keeping it pressed (>5 sec.).
- Check the system seal.
- When the system is operating, check whether the flow rate is shown on the display, and whether the indicated temperatures actually correspond to the real ones (see the display).
- Wait for the temperature to be updated on the display (1-2 sec.).
- Fix the seals on the devices to prevent any tampering by unauthorised persons.

Maintenance

The device does not require maintenance: any necessary repairs must be carried out by the manufacturer.



Warning.

Only a damp cloth should be used to clean the surfaces of the device; powerful or abrasive detergents must not be used.

Status symbols / Error codes

The symbols in the table below indicate the status of the meter in a clear and unmistakable manner. The status can only be seen on the main display (Energy). The triangular indicator light may flash as a result of particular system conditions, not necessarily relating to a device fault. If the flashing continues however, you must contact the technical assistance service.

Symbol	Status	Action
	External power supply	
	Flow rate present	-
	Attention!	Faulty system/device
	Flashing symbol: data transmission	-
	Constant symbol: optic interface active	-
	Fault	Replace the tool



Nota.

I codici di errori indicano gli errori rilevati dal contatore di energia. In presenza di più errori viene visualizzata la somma dei codici errori: errore 1005 = errore 1000 ed errore 5.

Code	Type of fault and possible cause	Solution
1	Temperature not in the range of display	Check the temperature sensors
2	Temperature not in the range of display	Check the temperature sensors
3	Short circuit return sensor	Check the temperature sensors
4	Interruption return sensor	Check the temperature sensors
5	Short circuit delivery sensor	Check the temperature sensors
6	Interruption delivery sensor	Check the temperature sensors
7	Battery voltage	Replace the device
8	Hardware fault	Replace the device
9	Hardware fault	Replace the device
100	Hardware fault	Replace the device
800	Wireless interface	Replace the device
1000	Low battery	Replace the device/battery*
2000	Calibration period expired	Replace the device

* For certification reasons the battery replacement is permitted only abroad

Legend



Briefly press the button (S), to scroll from top to bottom. From the last menu item automatically moves to first (loop).



Press for about 2 sec. the button (L), wait until you see the symbol of the door (up on the right on display), then release the button. Only then the menu is updated or goes to the submenu.



Press the button (H) until the change of level or to move to submenu.

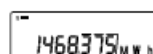


NB.

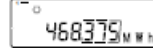
Activate the optical interface before reading the device with optical sensor by pressing a button.

Activate the devices in standby (display: SLEEP 1) by pressing a button, until it sees the indication of the energy.

Level 1



Thermal energy (main display)



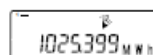
Cooling energy



Segment test



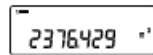
Date of the fixed day



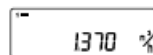
Energy of the fixed day



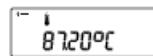
Colling energy a fixed day



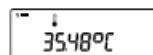
Volumes



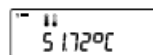
Flow rate



Delivery temperatura



Return temperatura



Temperature difference



Instantaneous performance



Level 2



Thermal energy from the last fixed day of resetting until today



Cooling energy from the last fixed day of resetting until today



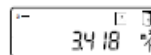
Current monthly value - Thermal energy



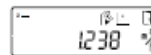
Current monthly consumption - Cooling energy



Current monthly volume



Max. flow rate



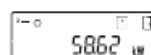
Max. monthly values flow



Max. power, hourly average value with effect from the start-up



Max. monthly thermal energy



Max. colling energy - average value with effect from the start-up



Max. monthly colling energy




Level 3

Pt 1000r

 Type of sensor and installation
volumetric point

00000000

Serial number

000000

Version number

E06 2020

Battery finished

Err 0000

Error

d 110115

Current date

14:10

Current time

H 783 h

Hours of operation

Adr 001

M-Bus address

CE 0

Certification

CS 0200

Firmware version

1-OC En

 Function
Exit 1

2-OC CE n

 Function
Exit 2

3-OC CE n

 Function
Exit 3

rE 8604

 residual energy -
optical interface

Level 4

P1- 100 I

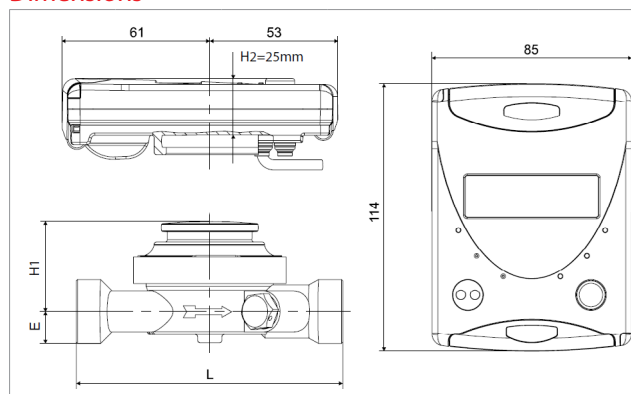
Pulse value - Input 1

P2- 100 I

Pulse value - Input 2

P3- 100 I

Pulse value - Input 3


Dimensions


Product code	Connections	H1 [mm]	H1+H2 [mm]	L [mm]	E [mm]
GE552Y158	3/4"	40	65	110	21
GE552Y159	3/4"	40	65	110	21
GE552Y160	1"	40	65	130	21


Warning.
Leave a space of at least 30 mm for installation.

Compliance with MID Directive

If used for commercial applications, the energy meters are classified as measuring instruments subject to the rules of legal metrology. The GE552 meters comply with the requisites of Directive 2004/22/EC for measuring instruments (MID - Measurement Instrument Directive), implemented in Italy by Legislative Decree 2 February 2007, no.22 (Official Gazette no.64 of 17 March 2007). The DE12 MI004-PTB010 conformity certificate was issued by the PTB Institute of Metrology (Physikalisch-Technische Bundesanstalt).


NB:
the supplementary metrological marking is displayed on the front of each device, next to the EC mark. It consists of an "M" plus the last two digits of the year of marking, surrounded by a rectangle.

Reference Standards

- UNI EN 1434 - Heat meters
- UNI 10200 - Allocation of heating costs
- Legislative Decree 2 February 2007, no.22 - implementation of Directive 2004/22/EC for measuring instruments

Additional information

For further information, visit the website www.giacomini.com or contact the technical service: ☎ +39 0322 923372 ☎ +39 0322 923255 ✉ consulenza.prodotti@giacomini.com
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**GE552Y122
GE552Y123**

Description

The GE552 ultrasound energy meter is distinguished by its consistent accuracy over time and its remarkable operating safety. Its excellent measurement precision (**class 2**) means it can be used in a wide range of applications. The meter is available in 3/4" versions (nominal flow rate of 1,5 m³/h) and 1" versions (nominal flow rate of 2,5 m³/h); it is equipped with double register, and can therefore measure the thermal energy both of heating and of conditioning operations.

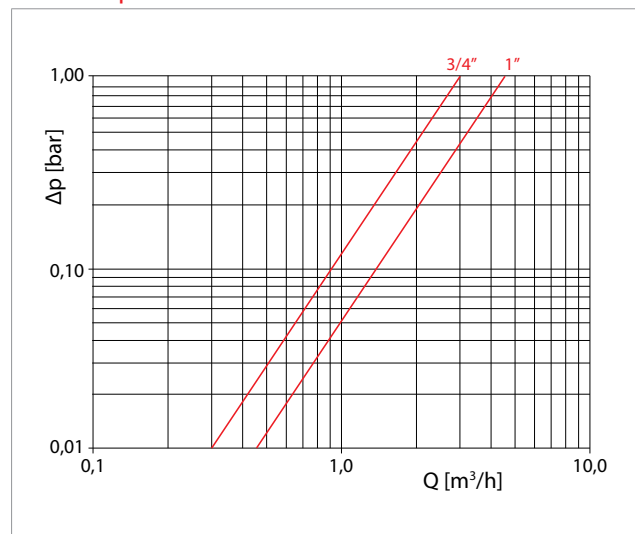
Versions and product codes

Product code	Connections	Nominal flow rate Q _n [m³/h]	Assembly centre distance [mm]
GE552Y122	3/4"	1,5	110
GE552Y123	1"	2,5	130

Technical data

Version	GE552Y122	GE552Y123
Connections	3/4"	1"
Calculator temperature range	1÷150 °C	
Flow measurer temperature range	5÷105 °C	
Temperature difference range (*)	3-150 K	
Probe type	Direct immersion - PT500	
Probe connection	M10x1 male	
Probe length	27,5 mm	
Probe cable length	1,5 m	
Nominal flow rate q _p [m³/h]	1,5	2,5
Maximum flow rate q _s [m³/h]	3,0	5,0
Minimum flow rate q _i [l/h]	6	15
Cut-off flow rate [l/h]	2	3
Max. working pressure	16 bar	
Loss of pressure at nominal flow rate (q _p)	< 0,25 bar	
Display	8-character display	
Power supply	lithium battery	
Battery lifespan	10 years	
Protection degree	IP54	
Ambient operating temperature range	5÷55 °C	
Mechanical/electromagnetic class	M1 / E1	
Accuracy class	2	

Losses of pressure



Installation

The installation of the meter is carried out by replacing the plastic spacer in the metering units. No adaptors or other connection components are necessary. The return temperature probe is integrated into the flow measurement section. The flow temperature probe must be installed and welded onto the delivery unit.

The electronic calculator can be separated from the main part of the meter.

Allowed installation positions

The meter hydraulics are type-approved for installation in any operating position (horizontal, vertical, or even upside down).

This characteristic, along with the flexible fixing system of the calculator, ensures optimum reading conditions in every type of application.



All users must comply with the laws and regulations in force and in particular with the EN 1434 parts 1 and 6.

Since the GE552 meter incorporates an M-Bus communication interface and can therefore form part of a network for transmitting data, it must also comply with the regulations for the installation of electronic devices.

Flow rate measuring section

- The flow rate measuring section must be installed on the return unit of the module or the metering satellite.
- Shut-off valves are positioned up and downstream from the flow rate measuring section.
- Pay attention to the correct flow direction, indicated by an arrow on the flow measurement section. The use of flow inverters is forbidden.
- Do not install it in the highest part of the piping, in order to avoid the formation of air pockets.
- Bear in mind the dimensions of the energy meter.

Installation of the temperature probes

- On the delivery unit of modules and metering satellites there is a shut-off valve with housing, designed for the installation of the delivery temperature probe.
- Do not remove the return temperature probe assembled on the flow measurement section.
- The cables cannot be folded, lengthened or shortened.
- The seal on the probe installation point on the measuring capsule must not be removed.
- Protect the temperature probe from interventions carried out by unauthorised



Supplementary card:

M-Bus + 4 inputs for external litre-counters

M-Bus

- Two-way serial interface for implementation in an M-Bus network.
- Protocol: EN13757-3, 300/2400 Baud, variable data protocol.
- Data: energy, volume, flow rate, power, temperatures, operating time, status, monthly indexes+additional data frames.

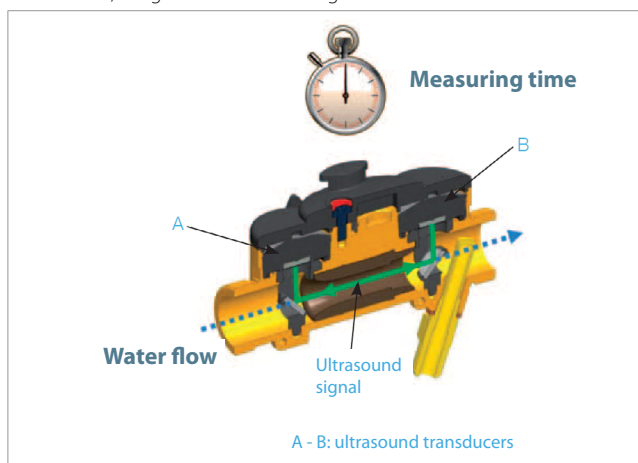
Impulse inputs for litre-counters (max. 4 litre-counters)

- Inputs for sanitary water meters equipped with impulse emitter. Visualisation of current and monthly indexes; remote reading via optic interface or M-Bus.
- Impulse weight: 1 litre, 2,5 l, 10 l, 25 l, 100 l, 250 l (configurable); maximum impulse frequency 0,25 Hz.
- Characteristics: active input, 3 V measurement voltage.
ON/OFF resistor $\leq 500 \Omega$ / $\geq 1 \text{ M}\Omega$.

Operation

Ultrasound technology is based on the principle of the runtime difference in the measurement pipe. The ultrasound transducers A and B work as both emitters and receivers for the ultrasound signal.

The signal runtime with the flow is less than that against the flow. The greater the flow rate, the greater the runtime signal difference.



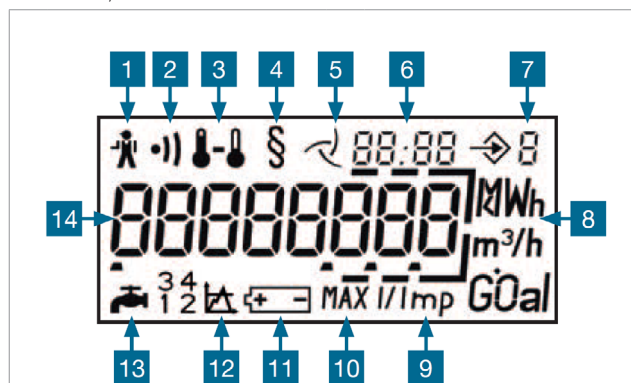
Multi-purpose display

The LCD display is organised over three different levels to obtain the best compromise between easy reading for cost info purposes, and access to all the additional data for service activities.

1 – Cost info level with energy indexes, volume indexes, external water meter volume indexes (optional), tariff indexes (optional).

2 – Fixed date reading level with the monthly indexes of energy and volume for the previous 18 months.

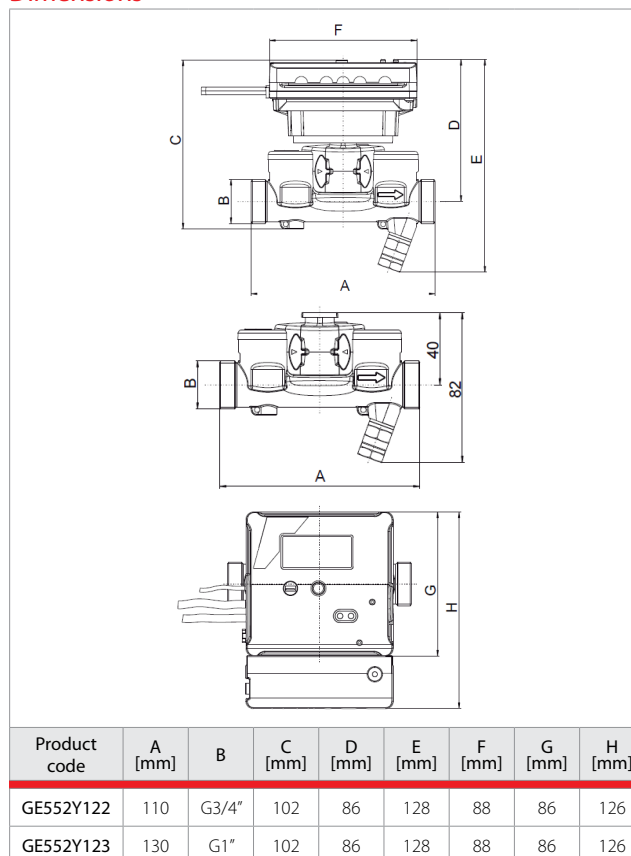
3 – Service level with flow rate, power, temperatures, peak values (optional), alarm codes, and other service information.



Legend

1	Alarm icon	8	Current physical unit
2	Transducer warning	9	Impulse input value
3	Temperatures	10	Peak value
4	Metrological indicator	11	Battery warning
5	Flow indicator	12	Tariff index
6	Date and time	13	External water litre-counter
7	Level indicator	14	Main 8-figure index

Dimensions





Compliance and Normative references

- MID 2004/22/EC
- EN 1434

Compliance with MID Directive

If used for commercial applications, the energy meters are classified as measuring instruments subject to the rules of legal metrology. The GE552 meters comply with the requisites of Directive 2004/22/EC on measuring instruments (MID Directive - Measurement Instrument Directive), implemented in Italy by Legislative Decree 2 February 2007, no. 22 (Official Gazette no. 64 of 17 March 2007). The certificate of conformity was issued by the PTB Metrology Institute (Physikalisch-Technische Bundesanstalt).

**Nota.**

The supplementary metrological marking is displayed on the front of each device, next to the EC mark; it consists of an "M" plus the last two digits of the year of marking, surrounded by a rectangle.

Product specifications

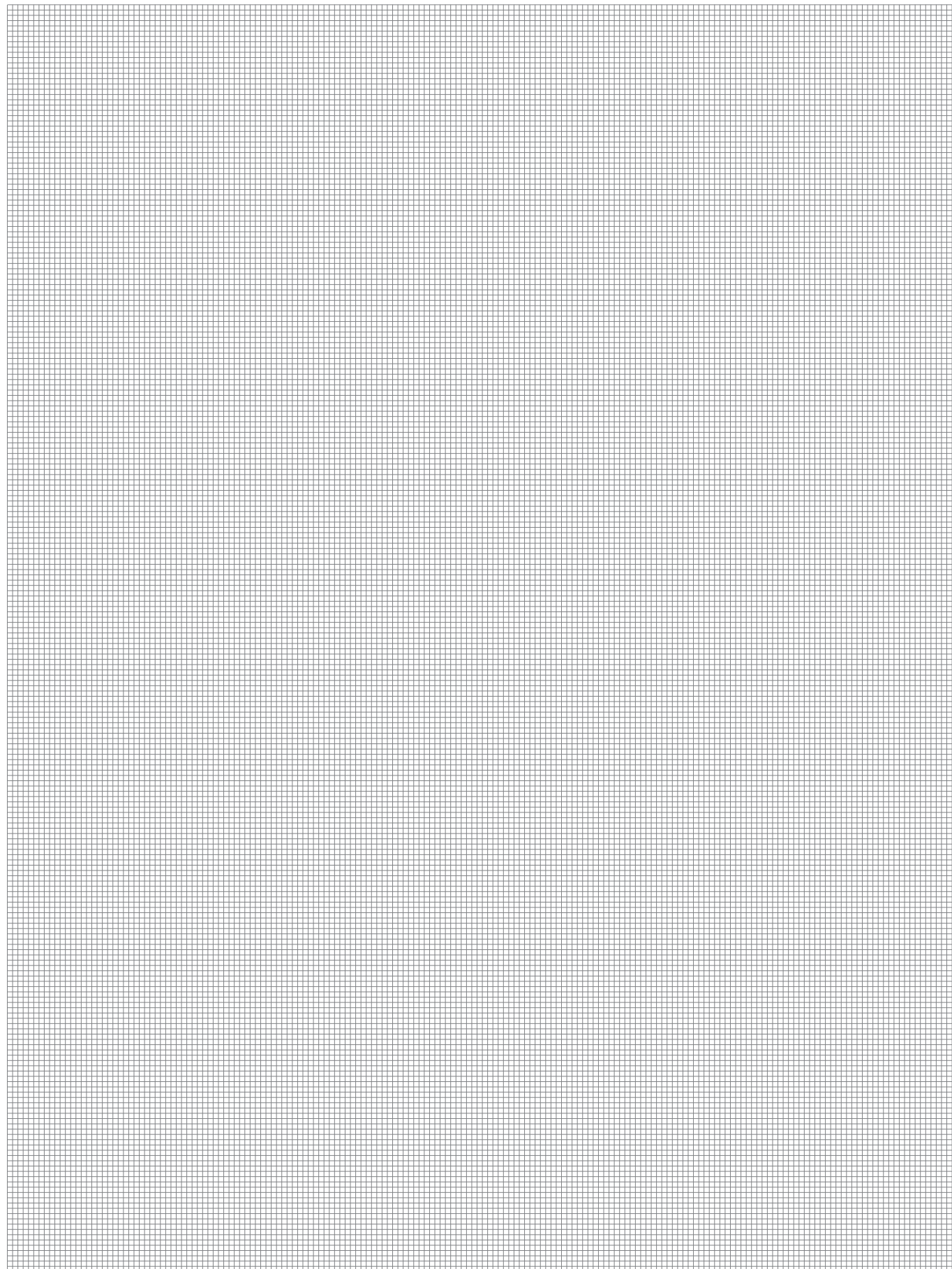
GE552 THERMAL ENERGY METER

GE552Y122

Ultrasound heat energy meter with double register for measuring consumption in heating and air conditioning mode. 3/4" connections. Nominal flow rate 1,5 m³/h. Maximum flow rate 3,0 m³/h. Minimum flow rate 6 l/h. 8-character LCD display. Powered by lithium battery with 10 year life span. Two PT500 direct immersion temperature probes with 1,5 m connection cable. Protection degree IP54. Assembly centre distance 110 mm. Operating temperature range 5÷105 °C. Max. working pressure 16 bar. Accuracy class 2. MID certified.

GE552Y123

Ultrasound heat energy meter with double register for measuring consumption in heating and air conditioning mode. 1" connections. Nominal flow rate 2,5 m³/h. Maximum flow rate 5,0 m³/h. Minimum flow rate 15 l/h. 8-character LCD display. Powered by lithium battery with 10 year life span. Two PT500 direct immersion temperature probes with 1,5 m connection cable. Protection degree IP54. Assembly centre distance 130 mm. Operating temperature range 5÷105 °C. Max. working pressure 16 bar. Accuracy class 2. MID certified.

**Additional information**

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Giacomini S.p.A. Via per Alzo, 39 - 28017 San Maurizio d'Opaglio (NO) Italy


GE552Y215
GE552Y216
GE552Y217

Description

The GE552 thermal energy meters are dual-mode compact volumetric meters with dry display and LCD direct reading with 8 characters+icons.

The meters are supplied with M-Bus cable and are predisposed for the installation of Wireless M-Bus card (GE552Y027), to be installed inside the meter. Centralization of consumption data available with GE552-4 (M-Bus cable) or GE552-W (Wireless M-Bus) products.

Versions and product codes

Product code	Connections	Nominal flow Q _n [m³/h]	Installation centre distance [mm]
GE552Y215	3/4"	0,6	110
GE552Y216	3/4"	1,5	110
GE552Y217	1"	2,5	130

Accessories

- GE552Y027: Wireless M-Bus card for GE552Y215-216-217 energy meters

Technical data

Version	GE552Y215	GE552Y216	GE552Y217
Metering temperature range	Heating: 5÷90 °C Cooling: 2÷24 °C		
Nominal pressure	16 bar		
Type	Dual-mode volumetric		
Temperature range difference	Heating: 3÷70 K Cooling: 3÷20 K		
Max. metering power	650 kW		
Type of probe	PT1000		
Probe wire length	1,5 m		
Connections	3/4"	3/4"	1"
Nominal diameter	DN15	DN15	DN20
Nominal flow Q _n	0,6 [m³/h]	1,5 [m³/h]	2,5 [m³/h]
Max. flow Q _{max}	1,2 [m³/h]	3,0 [m³/h]	5,0 [m³/h]
Min. flow Q _{min}	24 [l/h]	30 [l/h]	50 [l/h]
Pressure loss with Q _n	< 0,25 bar	< 0,25 bar	< 0,25 bar
Display	LCD display with 8 characters+icons		
Power supply	10 years-life lithium battery		
Protection class	IP54		
Precision class	2		
H/V ratio	25/25	50/50	50/50
Environment class	A (E1; M1)		
Installation centre distance	110 mm	110 mm	130 mm

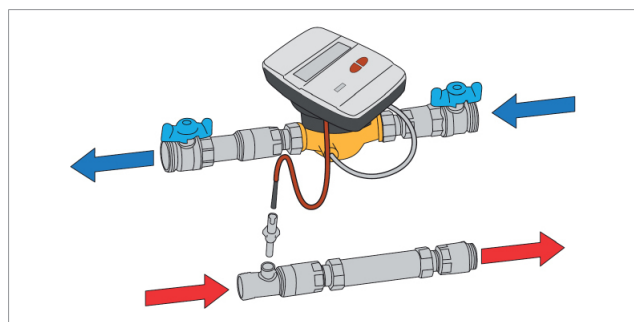
Main characteristics

- Combined heating/cooling
- N.2 inlets / N.1 outlet with integrated pulses
- M-Bus cable EN13757-2/3 integrated outlet (**supplied**)
- Wireless M-Bus EN13757-4 outlet through GE552Y027 card (**optional**)
- 360°-adjustable calculation unit
- High-precision platinum temperature probes

Installation

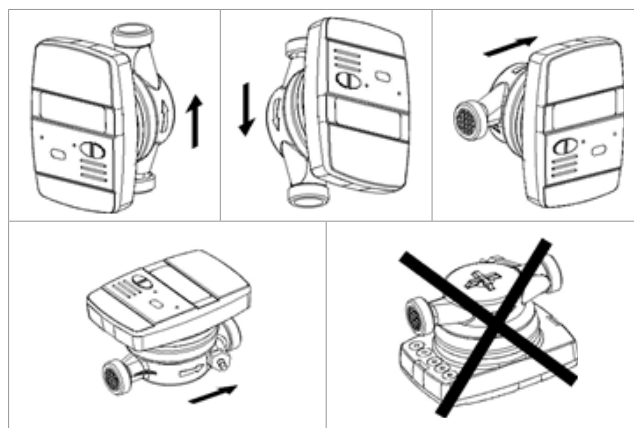
Energy meter installation

- The unit can be installed by replacing the plastic or metal spacer of the meters.
- No adapters or other connection components required.
- Before installing the unit, make sure the two piping elements are aligned and clean them thoroughly. Also make sure there is an adequate filter on the flow inlet, with clean and intact gaskets on both ends.
- Install proper flow interception and regulation devices on top and bottom of the unit to carry out inspections and maintenance operations, to control the heating circuit and seal the system.
- Check the flow direction. Install the meter so that water flows in the direction shown by the arrow marked on the brass body and complying with the recommended position (see indications on meter lid).
- For proper metering, make sure there is no air inside the pipes and that the fluid is clean and free of debris (potentially harmful for the meter turbine).
- The unit must be installed on the heating return circuit. Always refer to indications on unit lid.



Installation positions allowed

The GE552Y215-216-217 energy meters can be installed both horizontally and vertically. For a better performance, we recommend horizontal installation with the turbine axis perpendicular to the ground and the electronic unit facing up. Do not install the meters with the electronic unit facing down.



Installation of temperature probes

The energy meter is provided with two PT1000 probes complying with the MID 2004/22/CE directive and the EN1434 standard.

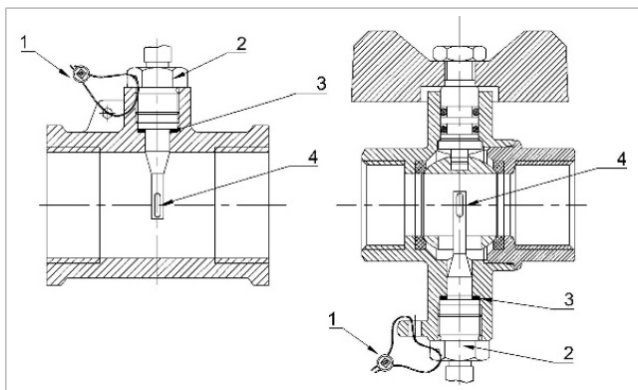
For proper installation, always comply with the directives of the rules in force.

The return probe is already integrated in the brass case.

The delivery probe must be installed in a ball valve (i.e. **R251T** series) or in a housing with M10x1 mm connection, assembled on the delivery pipe and complying with the requirements of the EN1434.

Before installing the free probe (the one not installed in the meter case), intercept the flow (by closing the ball valve or the proper dampers)

Then loosen the valve closing screw and fit adequate gaskets [3] (included in the box) to guarantee a safe installation. Fit the probe by screwing on the threaded guide and make sure it is properly tightened (see arrow [2]).



Warning.

For proper temperature metering, the tip of the probe [4] must be placed in the center of the pipe. In addition, the probe axis must be perpendicular to the piping axis (see picture).

The probe must be sealed once the installation is completed [1].

Installation of the GE552Y027 wireless card

	<p>1) Remove the meter lid.</p>
	<p>2) Install the wireless card by fitting it to the finger joint as shown and making sure it is firmly in place.</p>
	<p>3) Close the unit lid. We also recommend applying the provided installer seal.</p>






Note.

The wireless card can be configured only when installed inside the energy meter.

Data centralization

Centralization through GE552-4 M-Bus cable

Product code	Description
GE552Y050 	Local concentrator for the collection, processing and recording of data originated from the M-Bus network. Capable of managing up to 60 devices.
GE552Y051 	M-Bus datalogger for the collection, processing and recording of data originating from local GE552Y050 concentrators (max. 4 concentrators). Can manage directly up to 20 devices and expands the M-Bus network up to 250 devices.
GE552Y055 	Modem router 3G/EDGE/GPRS - wireless for remote connection of the datalogger.
GE552Y056	Software for data acquisition from the M-Bus central unit. To be combined with the GE552Y050 data concentrator

Centralization through GE552-W Wireless M-Bus




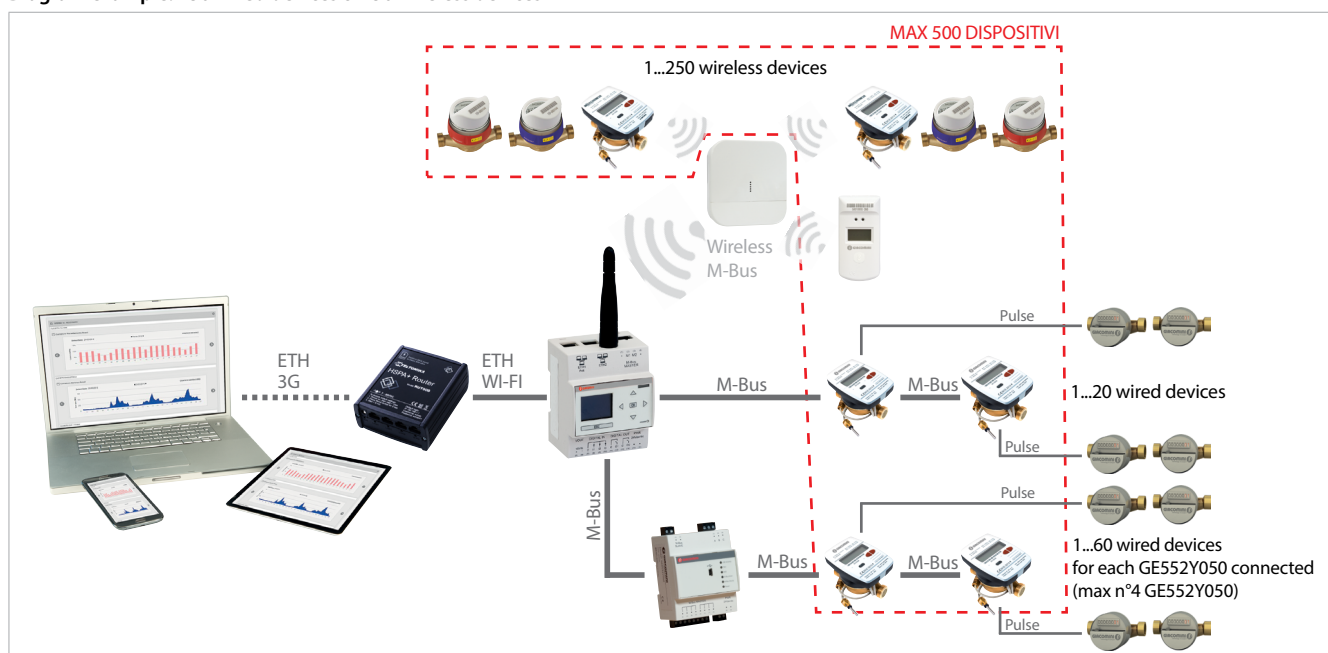
Product code	Description
GE552Y052 	Datalogger M-Bus / M-Bus Wireless to acquire, process, record data from wired or wireless M-Bus devices. Manages directly up to 500 wireless devices and 20 wired devices.
GE552Y053 	Wireless repeater and concentrator to extend the device radio range and send data to the GE552Y052 datalogger.
GE552Y055 	Modem router 3G/EDGE/GPRS - wireless for remote connection of the datalogger.

Diagram example: 250 wired devices & 250 wireless devices

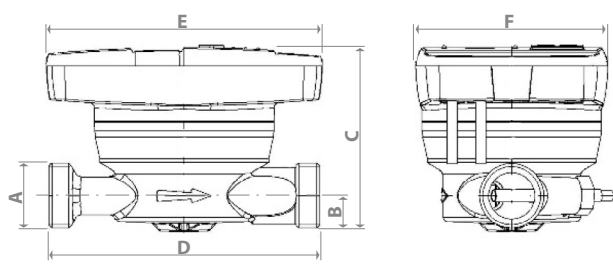


Note.

For more details about the M-Bus cable system see datasheet 0780EN.
 For more details about the Wireless M-Bus system see datasheet 0794EN.



Dimensions



Product code	Connections A	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
GE552Y215	3/4"	13	74	110	112	78
GE552Y216	3/4"	13	74	110	112	78
GE552Y217	1"	17	78	130	112	78

Product specifications

GE552Y215

Dual-mode volumetric thermal energy meter to read heating and cooling consumptions. 3/4" connections. Nominal diameter DN15. Nominal flow 0,6 m³/h. Max. flow 1,2 m³/h. Min. flow 24 l/h. LCD display with 8 characters+icons. 10 years-life lithium battery. Includes N.2 PT1000 temperature probes with 1,5 m connection wire. Protection class IP54. Meter dimensions 110x74x78 mm (LxHxW). Installation center distance 110 mm. Operating temperature range 5÷90 °C. Max. operating pressure 16 bar. Accuracy class 2. MID certificate. Preset for installation of GE552Y027 Wireless M-Bus card, for data centralization complying with EN 13757 Wireless M-Bus standard.

GE552Y216

Dual-mode volumetric thermal energy meter to read heating and cooling consumptions. 3/4" connections. Nominal diameter DN15. Nominal flow 1,5 m³/h. Max. flow 3,0 m³/h. Min. flow 30 l/h. LCD display with 8 characters+icons. 10 years-life lithium battery. Includes N.2 PT1000 temperature probes with 1,5 m connection wire. Protection class IP54. Meter dimensions 110x74x78 mm (LxHxW). Installation center distance 110 mm. Operating temperature range 5÷90 °C. Max. operating pressure 16 bar. Accuracy class 2. MID certificate. Preset for installation of GE552Y027 Wireless M-Bus card, for data centralization complying with EN 13757 Wireless M-Bus standard.

GE552Y217

Dual-mode volumetric thermal energy meter to read heating and cooling consumptions. 1" connections. Nominal diameter DN20. Nominal flow 2,5 m³/h. Max. flow 5,0 m³/h. Min. flow 50 l/h. LCD display with 8 characters+icons. 10 years-life lithium battery. Includes N.2 PT1000 temperature probes with 1,5 m connection wire. Protection class IP54. Meter dimensions 130x78x78 mm (LxHxW). Installation center distance 130 mm. Operating temperature range 5÷90 °C. Max. operating pressure 16 bar. Accuracy class 2. MID certificate. Preset for installation of GE552Y027 Wireless M-Bus card, for data centralization complying with EN 13757 Wireless M-Bus standard.

Additional information

For more information, go to www.giacomini.com or contact our technical assistance service: ☎ +39 0322 923372 📠 +39 0322 923255 ✉ consulenza.prodotti@giacomini.com
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