

Braukmann

Metering kit for heating systems

MB2-230SN2-L-PICV

INSTALLATION, COMMISSIONING AND OPERATING INSTRUCTIONS



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Safety Guidelines

General Warnings



WARNING

Resideo Metering Kit - Hydraulic Interface Unit must be installed by qualified personnel in accordance with the applicable regulations and IEE Regulations.

The end user is not authorized to work on the unit. Any contractual or extra-contractual responsibilities of the Constructor is excluded for damages to people, animals or things caused by an improper use or by installation mistakes or special maintenance as well as by not qualified personnel intervention and, in general, by non-fulfilment of what indicated in installation, commissioning and operating instructions.

The unit has 1 stub piece predisposition for following installation of metering components, and is not intended to work without these components.

The unit is produced to work with Resideo components (meters, according to their compatibility with the unit that must be verified in advance with Resideo personnel).

Resideo take no responsibility for difficulties arising from failure to observe these instructions. Please read this manual before undertaking the installation.

Upon completion of the installation, please hand these instructions to the user. These instructions should be retained for future reference.

Description

The unit (once equipped with appropriate metering components, not included in the unit) allows the metering of the energy taken from the centralized system for the heating function.

Consumption of heat energy may be read directly by viewing the appropriate meters installed within the unit (not included in the unit). If the meters are connected by means of M-Bus network, the supplier of energy may remotely read the meters for purposes of billing without the need for direct access to the unit.

The flow rate of heating plant can be regulated thanks to the pressure independent control valve (PICV).

Device doesn't requires any maintenance.



WARNING

Risk of scalding!

Metering kit must be placed in a protected space not accessible by unqualified people. It is risky to touch the pipes without any protection due to hot surfaces.

Before Installation



WARNING

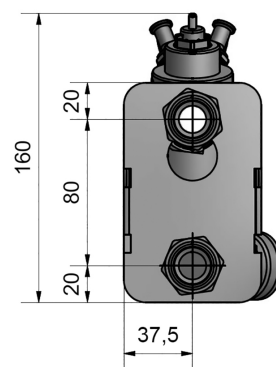
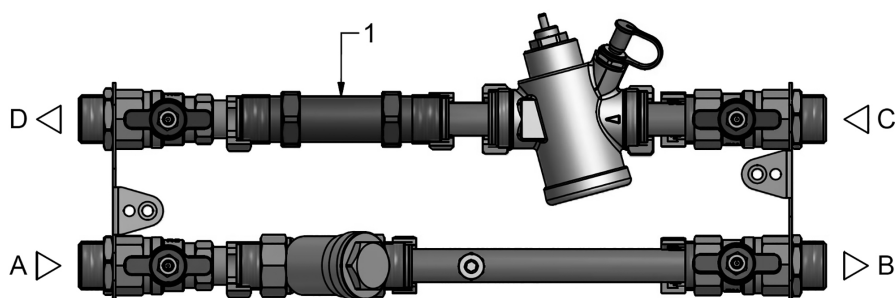
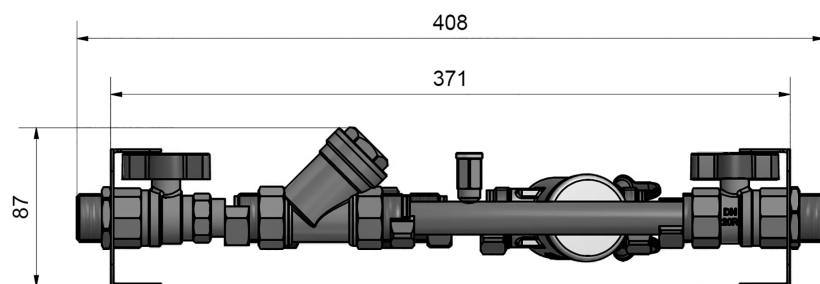
The Installer has to check that unit fixing systems are suitable to mounting wall.

This equipment must only be used for the purpose for which it was intended, improper use may be hazardous.

1. Unpack and remove the Metering kit from carton.
2. Check the equipment and report any damage to a Resideo representative.
3. The unit must be fixed to the wall by using no. 2 Ø 6 mm anchors (not included).

NOTE: Anchoring materials must be suitable for the mounting surface which must comply with all local codes.

Dimensions



LEGENDA

A Heating supply from centralized system

B Heating supply to apartment

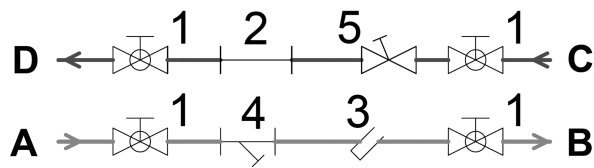
C Heating return from apartment

D Heating return to centralized system

All Hydraulic screwed connections according to ISO 228/1 G $\frac{3}{4}$ " M

1 Blind pipe for energy meter (G3/4"x110mm)

Functional hydraulic scheme



- A Heating supply from centralized system
- B Heating supply to apartment
- C Heating return from apartment
- D Heating return to centralized system

- 1 Manual isolation valve
- 2 Blind pipe for energy meter
- 3 Heat meter temperature sensor pocket
- 4 Strainer
- 5 PICV

Technical data

Heating Circuit	
Kind of fluid	Water quality according to VDI2035 max. glycol 30%*
Max. temperature	90°C
Max. operating pressure	6 bar
Heating min/max flow rate	According to heat meter installed and PICV
Heating nominal flow rate	According to heat meter installed and PICV
k_{vs} -value	1.90 m³/h
Pipes	
Material	Copper
Size	Ø18 x 1 mm
Hydraulic connections	
Material	Brass
Size	G 3/4" M
Metal frame	
Material	Galvanized sheet 1.5 mm
Kombi - PICV	
Δp min	18 kPa
Δp max	600 kPa
Min flow	80 l/h
Max flow	1000 lh
Ambient operation	
Installation	Indoor
Ambient temperature range	5-55°C
Humidity range	25-85%
Features	
Weight	3.5 kg

(*) Installing accessories in replacement of the stub pieces can reduce the percentage of permitted glycol. It is strong recommended the Customer to refer to the single components to be installed as limit parameter.

Built-in installation

The unit has to be installed indoors in suitable ambient conditions (see technical specification on page 4).

The installer has to individuate the most suitable wall according to weight and overall dimensions indicated on page 3 and 4.

Hydraulic connections



CAUTION

Before installing the internal components, the centralised and apartment systems must be cleansed and flushed to avoid fouling of the unit with impurities or debris from the pipe work installation procedures. The presence of impurities in pipes can be the reason for unsatisfactory working and can cause possible damages to unit components.

Therefore it is very important to carefully flush pipes before installing.



CAUTION

When pipe connections to system and / or apartment are rigid, using connections flexible pipes is necessary in order to compensate mechanical and thermal stresses.

The hydraulic connections must conform to the unit version. Please refer to the list of versions before.

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Manufactured for
and on behalf of
Pittway Sarl, Z.A., La Pièce 4,
1180 Rolle, Switzerland

For more information
homecomfort.resideo.com/europe
Ademco 1 GmbH, Hardhofweg 40,
74821 MOSBACH, GERMANY
Phone: +49 6261 810
Fax: +49 6261 81039