



COUNTER OF ENERGY ULTRASOUND

RCE Heat Meter

RESIDENTIAL DN15 to DN40

THIS

MID

EN1434

M Bus

Modbus-RTU

EN13757

Thermal & cooling energy

Advanced technology & electronics

Ease of installation & use

Precision, stability & longevity

Communications & tele succession

Design, compact & robust

Vertical or horizontal mounting

Multifunction display / 8 digit LCD display

On long-lasting battery or power supply

Suitable for lower water qualities

DISTRICT DN50 to DN1000



Thermal & cooling energy meter

RCE HeatMeter Residential DN15~DN40

PRISMA
Instruments

CARACTERISTIQUES GENERALES

3.6V High Capacity Lithium Battery - Over 10 Years Life.

Dynamic rangeability (measuring range) 250:1, 100:1 & 50:1.

The installation of meters in DN15-DN40 does not require straight lengths. The flow can be

bi-directional in horizontal or vertical mounting. Furthermore the calculator can be oriented in any direction.

Compatible with MODBUS RTU and EN13757 communication protocols.

Supports Optical, Serial RS485, M-BUS wired and wireless communication interfaces.

Multiple communication modes possible: 2 input pulses 1 output pulse, 4-20mA, GPRS functions...

MID certification and EN-1434 compliance.

An advanced calibration system, according to international standards, ensures the accuracy of the product.

Can be used as a calorie counter, cold counter or as a combined climate counter.



DESCRIPTION

The **RCE HeatMeter** ultrasonic energy meter is equipped with a latest generation ultrasonic flow meter. This ultrasonic energy meter is based on state-of-the-art microprocessor technology, which meets perfectly to the new standards in terms of energy and environmental savings. She ensures a exceptional accuracy and reliability. The RCE meter is designed to meet the new requirements for individualized billing of energy consumption. In particular, it makes it possible to measure specifies the thermal and cooling energy in which water is the heat transfer fluid. It is specifically adapted to the residential and industrial sectors: HLM, condominium, building, individual house, factories, city, district... The meter has remote reading functionalities in order to better monitor its energy consumption. It allows communication according to the M-Bus or Modbus RTU standards. It records stores counting data during 24 months. The ultrasonic technology eliminates a significant part of the pressure drops, ensures a very high measurement range and it is totally insensitive to any particles in suspension in the heat transfer liquid. The advantage of ultrasonic measurement is that no moving parts are in contact with the fluid, which gives the device a long life. Thanks in particular to its very affordable price, you will certainly save money from the first year of use.

Thermal & cooling energy meter

RCE HeatMeter Residential DN15~DN40

PRISMA
Instruments

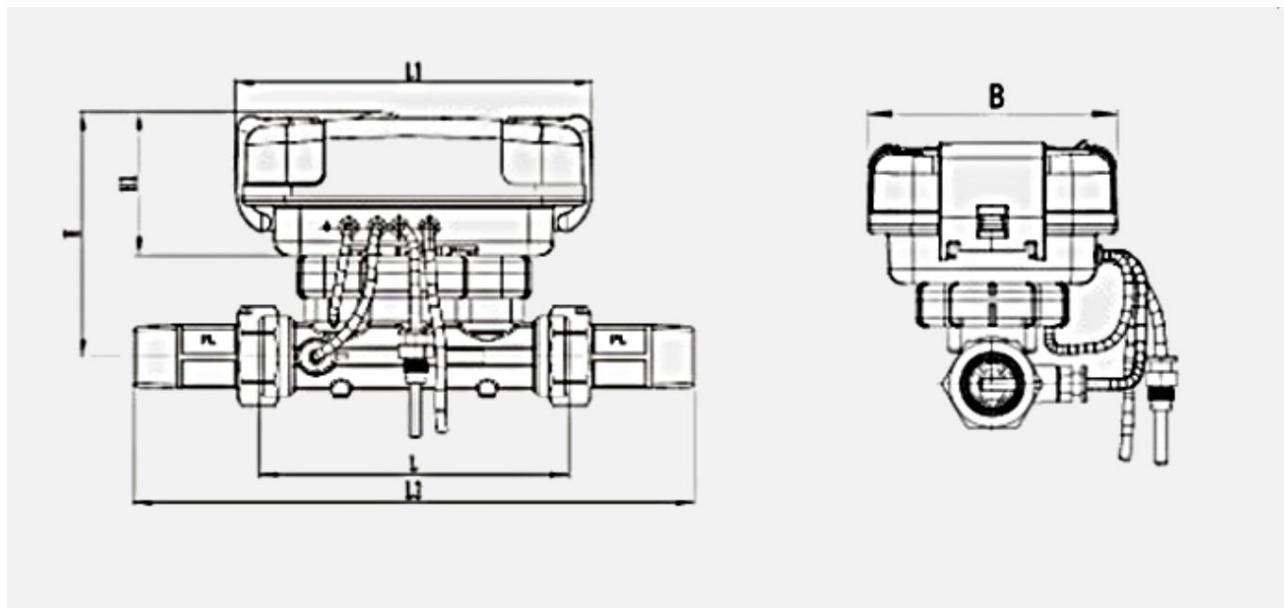
SPECIFICATIONS

The **RCE HeatMeter** ultrasonic energy meters are of a completely new generation.

Their technology is based on the transit time determination method for volume flow measurement, flow and return temperature measurement, and a digital processor for the calculation and communication parts.

DIMENSIONS

Nominal Diameter (mm)		15	20		25		32	40
Dimensions (mm)	L	110	130	190	160	260	180	200
	L2	200	230	290	260	360	280	300
	L1	150	150	150	150	150	150	150
	H	100	103	103	106	106	109	113
	H1	60	60	60	60	60	60	60
	B	105	105	105	105	105	105	105
Connection (inches)		G3/4B	G1B		G11/4B		G11/2B G2B	
Coupling connection (inches)		R1/2	R3/4		R1		R11/4 R11/2	





DN50-DN100



DN125-DN1000

250:1

Dynamic rate



Up 5 down 0 straight piping installation



>10 years shelf life



Wireless transmission

CARACTERISTIQUES GENERALES

3.6V High Capacity Lithium Battery - Over 10 Years Life

External AC220V or DC24V power supply optional

The calculator can be local or remote (up to 10 m)

Streamlined fluid structure to improve measurement accuracy and stability and reduce the requirement for straight lengths during installation: 5 DN upstream 0 downstream

Mounted on flow or return line, in horizontal or vertical position

compatible with lower water qualities, does not require special maintenance

Compatible with MODBUS RTU and EN13757 communication protocols, Optical communication, RS485 Serial, M-BUS wired and wireless, 4-20 mA optional. Available in remote reading (AMR) facilitates centralized technical management (GTC). IP68 protection, protected against hot water vapor and condensation.

Advanced calibration device according to international

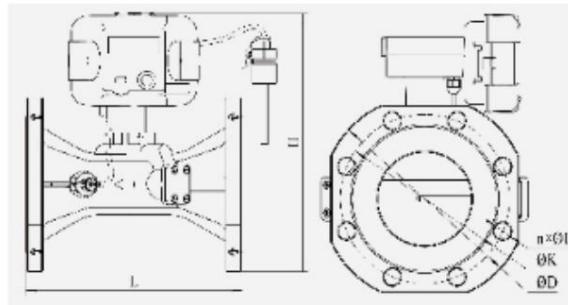
standards An advanced calibration system, according to international standards, ensures the accuracy of the product.

Can be used as a calorie counter, cold counter or as a combined climate counter.

SPECIFICATIONS

DIMENSIONS DN50-DN100

Nominal Diameter DN (mm)		50	65	80	100
Dimensions (mm)	L	200/270	200/300	225/300	250/360
	D	165	185	200	220
	H	247	258	279	299
	K	125	145	160	180
	N*ÿL	4*ÿ18	4*ÿ18	8*ÿ18	8*ÿ18

**DIMENSIONS DN125 -DN1000**

DN 125		150	200	250	300	350	400	450				500	600	700	800	900	1000
L	350	350	350	400	450	500	550	600	650			750	875		1000	1230	1300
D250		285	340	405	460	520	580	640	715			840	910		1025	1125	1255
H 388		418	476	535	589	645	699	756	819			931	1081	1166	1266	1381	
K	210	240	295	355	410	470		525	585	650		770	840	960	1050	1170	
NOT* ÿL	8*ÿ18	8*ÿ22		8*ÿ26			8*ÿ30		8*ÿ33	8*ÿ36		8*ÿ39			8*ÿ42		

