ULTRASONIC THERMAL METER

B12 VI-B

B12 VI-B Ultrasonic Thermal Meter

Bove Technology

53217895

DN15 PN16 IP65 PT1000
qi:0.03m³/h qp:1.5m³/h
θ:4-95°C ▲θ:3-75K
Out-Flow
Class 2 (E1,M1)
LoRaWAN

B12 VI-B, an outstanding ultrasonic thermal meter ensuring high durability and excellent corrosion resistance. This thermal meter offers precise measurement, making it a reliable choice for heat & cold metering in various applications. It's easy to install and maintain, bringing convenience to users.

Reinforced Protection

Features brass pipe sections, a robust design that ensures maintenance-free performance even in the harshest environments. IP65/IP68 enabled.

Advanced Ultrasonic Sensoring Technology

The adoption of advanced ultrasonic metering technology significantly enhances measurement accuracy. Furthermore, as the system contains no moving parts, mechanical wear is entirely eliminated during operation, thereby substantially extending product service life.
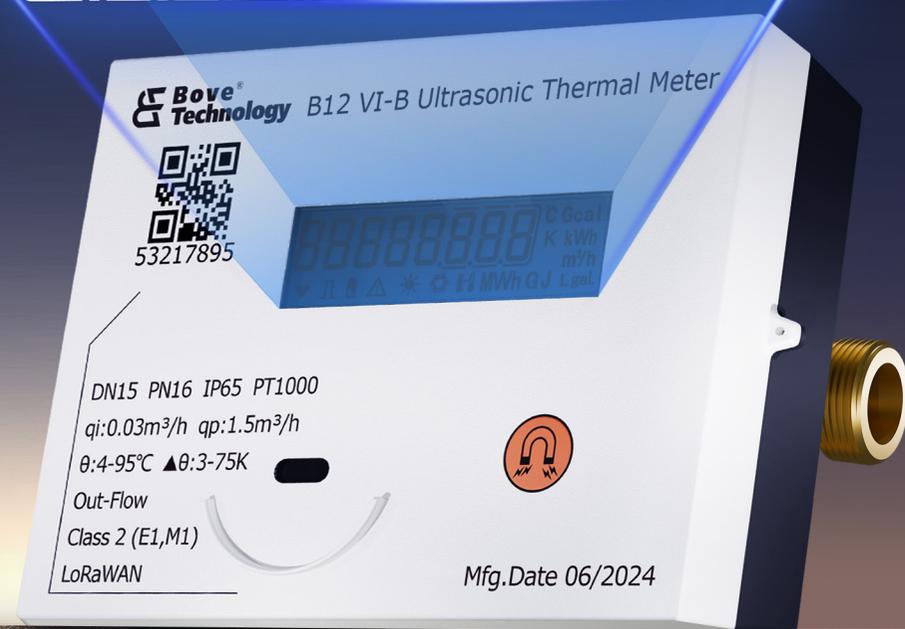
High Durability

Ultrasonic Metrology

Heat & Cold Measurement

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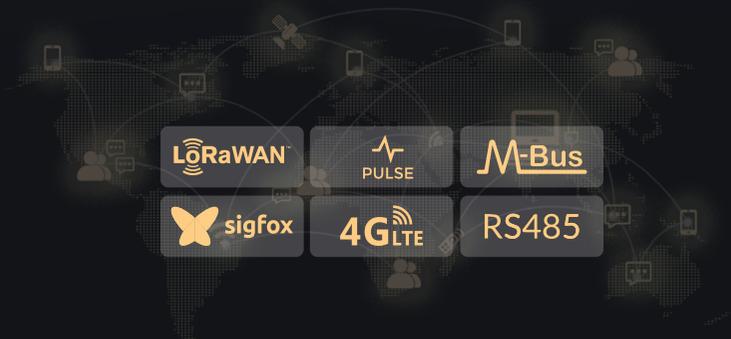
Mfg.Date 06/2024

DN15-40

DN50-200

DN200+

Split-Type Installation

Designed to meet diverse installation environments and data collection needs, this meter allows split - type installation. The meter body and pipe section can be installed separately and the cable length is customizable, ensuring high - flexibility and adaptability.

IoT Ready

Provides both wired and wireless communication, ensuring adaptability to different installation environment—such as M-Bus, RS485, Pulse, LoRaWAN, Sigfox, 4G, etc.
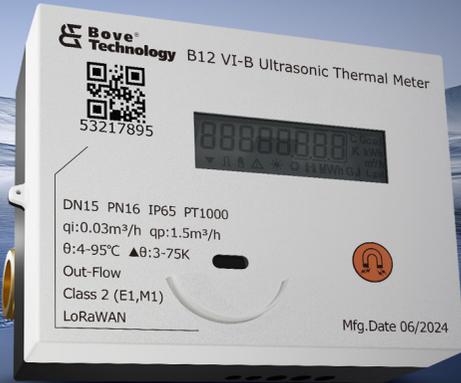
LoRaWAN™   PULSE   M-Bus

sigfox   4G LTE   RS485
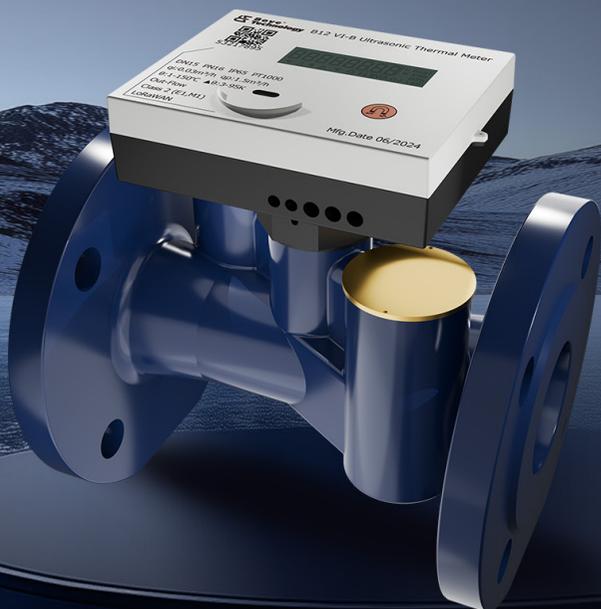
Heat & Cold Energy Measurement

HEAT

COLD

Bove Technology

B12 VI-8 Ultrasonic Thermal Meter

5527805

DN15 PN16 IP65 PT1000
qi:0.03m³/h qp:1.5m³/h
θ:4-95℃ ▲θ:3-75K
Out-Flow
Class 2 (E1,M1)
LoRaWAN

Mfg.Date 06/2024

DN15

LCD

BATTERY

Internal lithium battery up to 16 years battery life

BODY

High durability ABS material.

PT1000 Platinum Resistor

PT1000 Platinum Resistor

IR RECEIVER

PIPE

Brass material.

MAGNETIC INDUCTION

PCBA

A strong core, endowed with remarkable precision - measurement acumen and multifaceted functionality.

TECHNICAL SPECIFICATION

Model	B12 VI-B-15	B12 VI-B-20	B12 VI-B-25	B12 VI-B-32	B12 VI-B-40
Pipe Diameter	DN15	DN20	DN25	DN32	DN40
Minimum Flow Rate, qi (m^3/h)	0.03	0.05	0.07	0.12	0.2
Permanent Flow Rate, qp (m^3/h)	1.5	2.5	3.5	6	10
Maximum Flow Rate, (m³/h)	3	5	7	12	20
Connection	G¾"	G1"	G1¼"	G1½"	G2"
Length (mm)	110	130	160	180	200
Width (mm)	96	105	114	120	130
Temperature	Range: 4℃ - 95℃, △T: 3k - 75k				
Temperature Sensor	A pair of PT1000 platinum resistor				
Metrological Class	Class 2, (EN1434)				
Maximum Operation Pressure	1.6Mpa				
Pressure Loss	△P<25kPa at qp				
Protection Class	IP65				
Power supply	3.6VDC, lithium battery, 10-16 years lifetime option. 5~24V DC power supply(optional)				
Data Storage	• 18 months history data, including accumulated heat energy and volume, etc. • Total heat energy, volume, running hours, etc.				
Operating Temperature	-30℃ - 55℃				
Interface & Communication	• M-Bus • Pulse • RS485 • LoRaWAN • Sigfox • 4G				
Installation	Horizontal or Vertical				
Display and Indication	• Unit: kWh, MWh, GJ (optional) • LCD: 8-digit (back illumination) • Resolutions: 0.1kWh-9999999.9kWh				
Standard Compliance	• EN1434 • OIML R 75				
Certification	• CE • MID* • ROHS				

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Out-Flow
Class 2 (E1,M1)
LoRaWAN

Mfg.Date 06/2024

TECHNICAL SPECIFICATION

Model	Diameter	Nominal Flow Rate	Maximum Flow Rate	Minimum Flow Rate	Flange Outer Diameter	Length	Connection
	DN(mm)	Qp (m³/h)	Qs (m³/h)	Qi (m³/h)	mm	mm	
B12 VI-50	50	15	30	0.3	165	200	4×M16
B12 VI-65	65	25	50	0.5	185	200	4×M16
B12 VI-80	80	40	80	0.8	200	225	8×M16
B12 VI-100	100	60	120	1.2	220	250	8×M16
B12 VI-125	125	100	200	2	250	250	8×M16
B12 VI-150	150	150	300	3	280	300	8×M20
B12 VI-200	200	200	400	4	335	345	12×M20
B12 VI-250	250	400	800	8	405	445	12×M24
B12 VI-300	300	600	1200	12	460	500	12×M24
B12 VI-350	350	800	1600	16	520	500	16×M24
B12 VI-400	400	1000	2000	20	580	600	16×M27

Temperature	Range:1℃-150℃, △T: 3k-95k
Temperature Sensor	A pair of PT1000 platinum resistor
Metro-logical Class	Class 2
Maximum Operation Pressure	1.6Mpa
Pressure Loss	P<25kPa at Qp
Pressure Stage	PN16
Protection Class	IP65
Battery	3.6VDC, lithium battery, 6-10-15 years lifetime option.
Data Storage	•24 months history data, including accumulated heat energy and volume, etc. • Total heat energy, volume, running hours, etc.
Operating Temperature	-30℃ -55℃
Interface & Communication	•M-Bus • Optical port • Pulse Output/Pulse Input • RS-485 • LPWAN (LoRaWAN, Sigfox) •4G(CAT1)
Installation	Horizontal or Vertical
Display and Indication	• Unit: kWh, Wh, Gu (optional) •LCD: 8-digit (back illumination) •Accumulated:0.1kWh-9999999.9kWh
Standard Compliance	• EN1434 •EN13757

Creating an **Eco** Society

*The images in the file are only for showcasing technological effects, and the actual product shall prevail.