

Panda PHM Series

Ultrasonic Heat Meter DN15-DN40

Features >>>



- No Moving Parts, No Wear
- Heat/Cold Measurement.
- With Self-Diagnosis Function: Flow Sensor Fault Alarm, Temperature Sensor Open Circuit And Short Circuit Alarm, Measurement.
- Over-range Alarm, Battery Under-Voltage Alarm.
- The Application Of Intelligent Data Error Correction Technology, High Measurement Accuracy and Stability.
- Powered by Built-In Lithium Battery and Can Working More Than (6+1) Years.
- With an Optic Interface. It Supports On-Site Reading by Handheld Infrared Meter Reading Tools.
- Low Power Consumption (Static Power Consumption Less Than 6uA).
- High-Definition Wide-Temperature LCD Display.
- Built-In M-bus Communication Module, Optional NB-IoT, RS485 Remote Communication Output.

Application: Suitable for heat (cold) metering in unit residential buildings, meeting heating companies' needs for accurate metering and settlement of end users and customers' needs for big data.

Technical Specification >>>

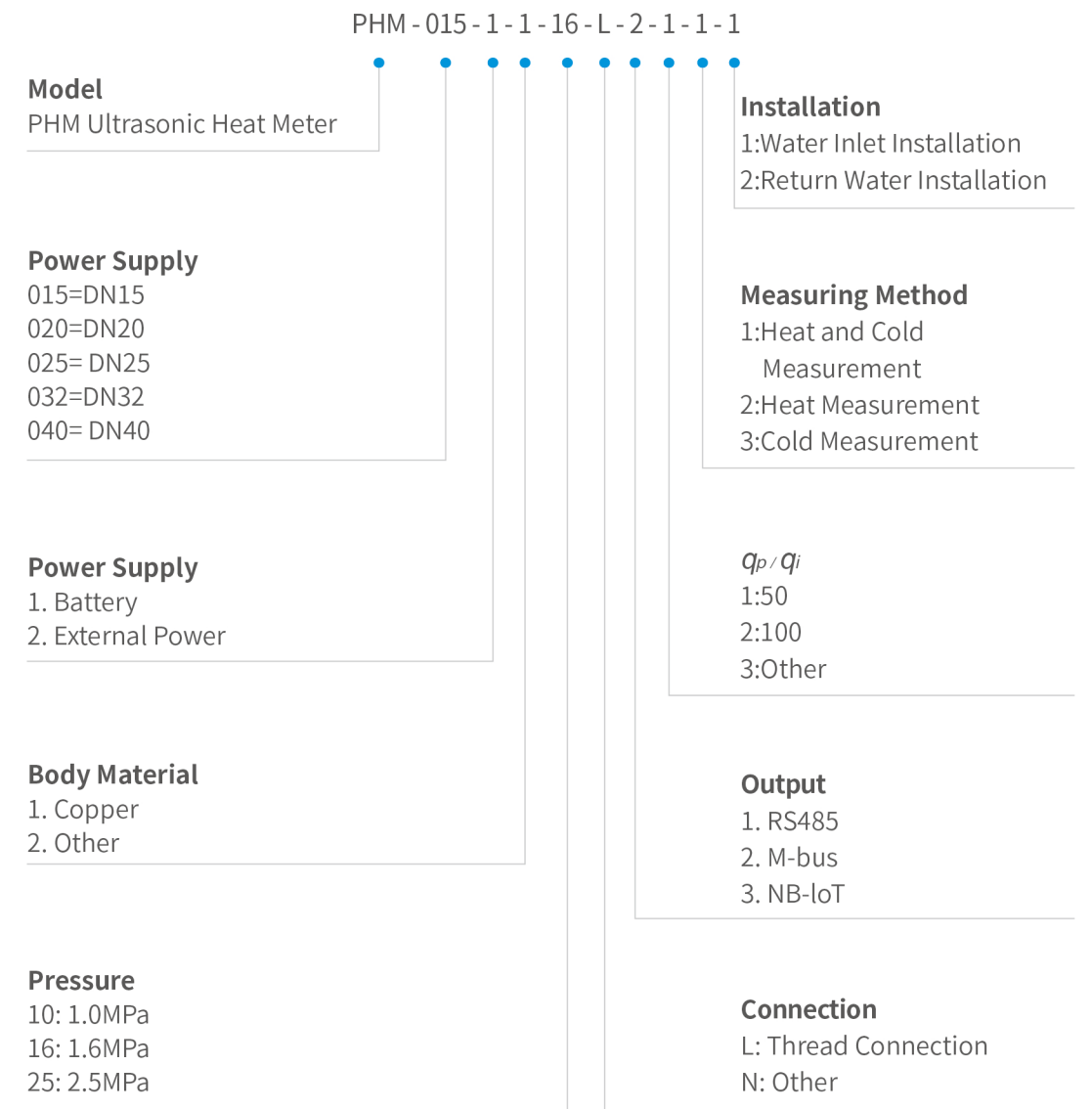
Accuracy Class	Class 2
Temperature Range	(4~95)°C
Temperature Difference Range	(2~75)K
Heat And Cold Metering Switching Temperature	25°C
Maximum Permissible Working Pressure	1.6MPa
Allowable Pressure Loss	≤25kPa
Environment Category	Type B
Nominal Diameter	DN15~DN40
Permanent Flow Q_p	DN15:1.5 m³/h DN20:2.5m³/h DN25:3.5m³/h DN32:6.0m³/h DN40:10m³/h
Q_p / Q_i	R50(Standard), R100(Optional)
Q_s / Q_P	2

Nominal Diameter DN	Size				Meter Thread Dimensions		Connect Tube Dimensions			Temperature Measurement Accessories	
	Length L (mm)	Width M (mm)	Height H (mm)	Weight (kg)	M Meter Thread	Thread Length L (mm)	Connect Tube Length L (mm)	M Connect Tube Thread	Thread Length L (mm)	Way of Installation	Length (mm)
15	110	75	100	0.5	G ¾B	12	43	R½	15	Temperature Measurement Tee (Ball Valve)	60
20	130	75	120	0.7	G1B	14	50	R¾	16		60
25	160	75	135	0.86	G1 ¼B	16	58	R1	18		60
32	180	75	155	1.1	G1 ½B	18	58	R1 ¼	20		65
40	200	75	170	1.3	G2B	18	59	R1 ½	22		65

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Ultrasonic Heat Meter DN15-DN40

Model Selection >>>



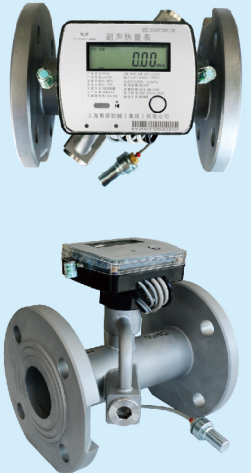
For Example: PHM-015-1-1-16-L-2-1-1-1

Stands for: PHM Ultrasonic Heat Meter, pipe size DN15 , Battery Supply, Copper tube material, Pressure 1.6MPa, Thread Connection, M-bus output, Q_p / Q_i 50, heat and cold dual metering, water installation.

Panda PHM Series

Ultrasonic Heat Meter DN50-DN400

Features >>>



- Ultra-Low Power Consumption (Less Than 6uA at Rest)
- Flow Sensor Fault Alarm, Temperature Sensor Fault Alarm, Battery Under Voltage Alarm
- Intelligent Data Error Correction, High Stability
- Built-In Lithium Battery Power Supply, Service Life of More Than 10 Years
- High Definition LCD Display Interface
- Default RS485, Optional NB-IoT Remote Communication Output
- Both Heat and Cold Measurement

Application: Suitable for public buildings, building heat measurement, heat exchange station measurement, central heating (cooling) system heat measurement, a variety of heat distribution method of total measurement.

Technical Specification >>>

Accuracy Class	Class 2
Temperature Range	(4~95)°C
Temperature Difference Range	(2~75)K
Heat And Cold Metering Switching Temperature	25°C
Maximum Permissible Working Pressure	1.6MPa
Pressure Loss Is Allowed	≤25kPa
Environment Category	Type B
Nominal Diameter	DN50~DN400
Permanent Flow q_p	Diameter DN50 DN65 DN80 DN100 DN125 DN150 DN200 DN250 DN300 DN350 DN400 Flowing 15 25 40 60 100 150 250 400 600 800 1000
q_p / q_i	R50(Standard), R100(Option)
q_s / q_p	2

Installation Dimensions >>>

Nominal Diameter DN	Meter Body Length L(mm)	Flange Connection			Flange Thickness C (mm)
		Flange Outer Diameter D2 (mm)	Threaded Hole Center Diameter D1 (mm)	Connecting Bolt	
50	200	165	125	4*M16	20
65	200	185	145	4*M16	20
80	225	200	160	8*M16	20
100	250	220	180	8*M16	22
125	250	250	210	8*M16	22
150	300	280	240	8*M20	24
200	345	335	295	12*M20	24
250	445	405	355	12*M24	26
300	500	460	410	12*M24	28
350	500	520	470	16*M24	28
400	500	580	525	16*M27	28

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Ultrasonic Heat Meter DN50-DN400

Model Selection >>>

PHM - 050 - 1 - 1 - 10 - F - 2 - 1 - 1 - 2

Example Model Selection
PHM Ultrasonic Heat Meter

Power Supply
050= DN50
065= DN65
080= DN80
0100=DN100
XXX: etc

Power Supply
1.Battery
2:External Power

Body Material
1:Stainless Steel
2:Other

Pressure
10:1.0MPa
16:1.6MPa
25:2.5MPa

Installation
1:Water Inlet Installation
2:Return Water Installation

Measuring Method
1:Heat and Cold Measurement
2:Heat Measurement
3:Cold Measurement

q_p / q_i
1:25
2:50
3:Others

Output
1.RS485
2.M-bus
3.NB-IoT

Connection
F: Flange
N:other

For Example: PHM-050-1-1-16-F-2-1-1-2

Stands for: PHM ultrasonic heat meter, Pipe size DN50 , battery supply, stainless steel pipe , pressure 1.6MPa, flange connection, M-bus output, q_p / q_i 25, heat and cold dual measurement, water return installation.