

Specific&features

- Low consumption, Large capacity Lithium battery, service life up to 20 years
- With temperature sensor short circuit or open circuit alarm and low voltage alarm
- With photoelectric interface, the charging function can be realized by using infrared tools
- There is no moving parts, the measurement accuracy is not affected by the service cycle
- M-BUS, RS-485 or 470MHz wireless port are available

Applications

- HVAC
- Power metering



Specifications

Temperature sensor

Sensor type	Pt1000, 2-wire, class B (EN60751)
Sensor range	0...105°C(WUM1) 0...150°C(WUM3)
Difference temp	3...90K(WUM1) 2...130K(WUM3)
Cable sensor	Silicone
Stem material	316SS
Stem diameter	5.2mm
Stem length	26mm
Pressure rate	1.6 MPa
Connection	M10*1, brass
Ingress protection	IP65

Calculator

Temp display	minimum 0.1°C
Flow display	minimum 0.01m³
Energy display	minimum 1kW.h
Quiescent current	≤7μA
Display	62*23mm, 8 digits LCD display
Accuracy	Class 2 EN1434
Ingress protection	IP65
Power supply	Lithium Battery (3600mAh or 8500mAh)
Memory	24 months, monthly values stored
Output port	M-BUS, RS-485 or 470MHz wireless

Flow sensor

Pipe material	Brass
Pipe type	column type(WUM1), plug-in type(WUM3)
Mounting position	U10D5 (WUM1) , No requirements (WUM3)
Connection	G thread
Flow range	Refer the range table in page 2
Pressure rate	1.6MPa
Pressure drop	max 0.025MPa
Temperature range	1...90°C(WUM1) 1...130°C(WUM3)
Mounting direction	Any direction, no inlet or outlet restrictions
Ingress protection	IP65(WUM1), P68(WUM3)

Product description

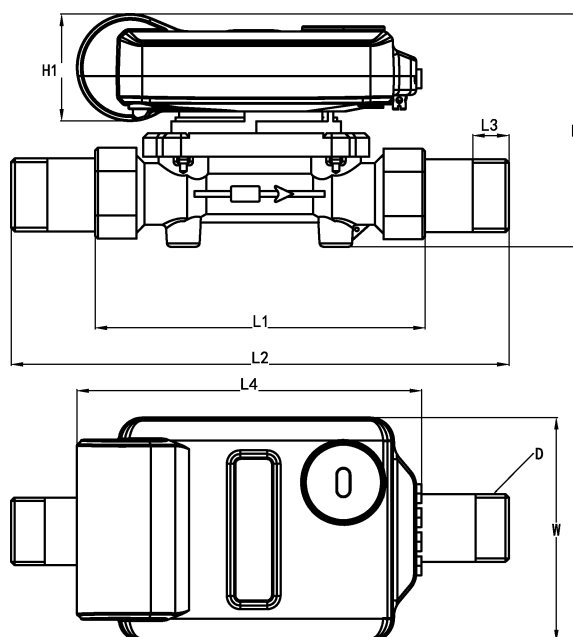
WUM series energy meters can measure energy consumption in heating or cooling, it supply accurate and steady energy measure for billing purpose to our customer.

The standard deliver products include an ultrasonic flow sensor, a pair of Pt1000 temperature sensors, a calculator and a tee joint socket for temperature sensor installation.

Flow range

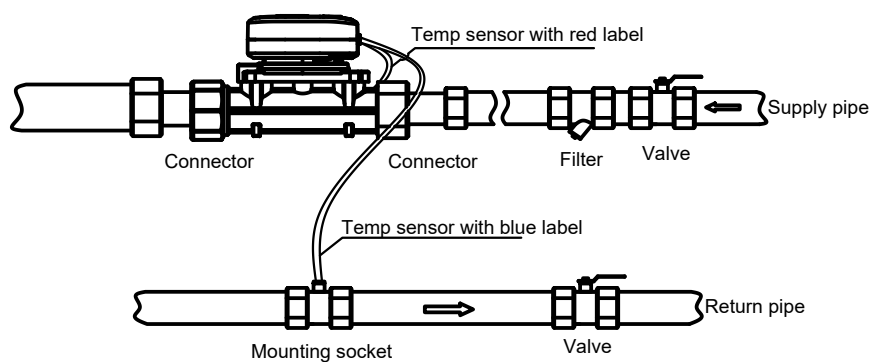
	WUM1					WUM3				
	DN15	DN20	DN25	DN32	DN40	DN15	DN20	DN25	DN32	DN40
$q_p(m^3/h)$	1.5	2.5	3.5	6	10	1.5	2.5	3.5	6	10
$q_i(m^3/h)$	0.03	0.05	0.07	0.12	0.2	0.015	0.025	0.035	0.06	0.1
$q_s(m^3/h)$	3	5	7	12	20	3	5	7	12	20

Dimensions in mm

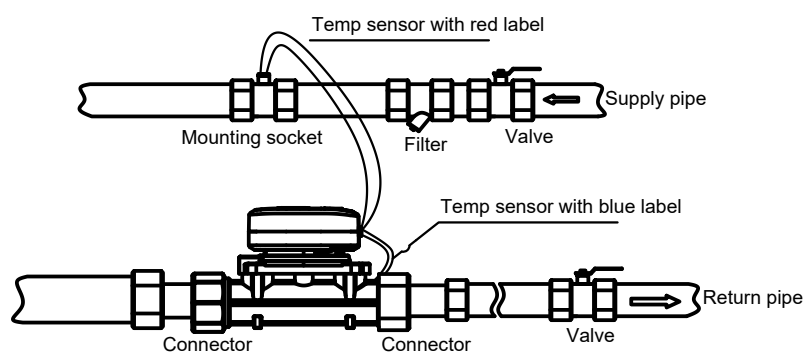


DN	H	H1	L1	L2	L3	L4	W	D
15	103	45	110	200	14	146	95	R1/2"
20	110	45	130	230	16	146	95	R3/4"
25	119	45	160	276	18	146	95	R1"
32	125	45	180	300	20	146	95	R1-1/4"
40	137	45	200	324	25	146	95	R1-1/2"

Application drawing



Mounting on supply pipe



Mounting on return pipe

Ordering code

	Code	Specifications
1.		WUM1 Universal type
2.		Output port
	M	M-BUS
	R	RS-485
	W	470MHz wireless
3.		Accuracy
	1	Class 2 EN1434
4.		Battery capacity
	1	3600mAh
5.		Flow sensor wire material
	P	PVC
	S	Silicone
6.		Flow sensor wire length
	00	1.5m (standard)
	XX	Input length with meter unit
7.		Temperature sensor wire length
	00	1.5m (standard)
	XX	Input length with meter unit
8.		Pipe size
	1	DN15
	2	DN20
	3	DN25
	4	DN32
	5	DN40
9.		Mounting position
	S	Mounting on supply pipe
	R	Mounting on return pipe

END

Ordering code

	Code	Specifications
1.		WUM3 High performance type
		Communication port
2.		M M-BUS
		R RS-485
		W 470MHz wireless
		Accuracy
3.		1 Class 2 EN1434
		Battery capacity
4.		2 8500mAh
		Flow sensor wire material
5.		P PVC
		S Silicone
		Flow sensor wire length
6.		00 1.5m (standard)
		XX Input length with meter unit
		Temperature sensor wire length
7.		00 1.5m (standard)
		XX Input length with meter unit
		Pipe size
8.		1 DN15
		2 DN20
		3 DN25
		4 DN32
		5 DN40
		Mounting position
9.		S Mounting on supply pipe
		R Mounting on return pipe

END