

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

Product description

WUH 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 pipe size from DN50 to DN400.

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

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 14500mAh
Memory	24 months, monthly values stored
Output port	M-BUS, RS-485 or 470MHz wireless

Flow sensor

Pipe material	Steel painted
Sensor mounting	Opposite type
Mounting position	U10D5 (WUH1) , U3D3 (WUH3)
Connection	Flange
Flow range	Refer the range table in page 2
Pressure rate	1.6MPa
Pressure drop	max 0.025MPa
Temperature range	3...90°C(WUH1) 3...130°C(WUH3)
Mounting direction	Any direction, no inlet or outlet restrictions
Ingress protection	IP65(WUH1), P68(WUH3)

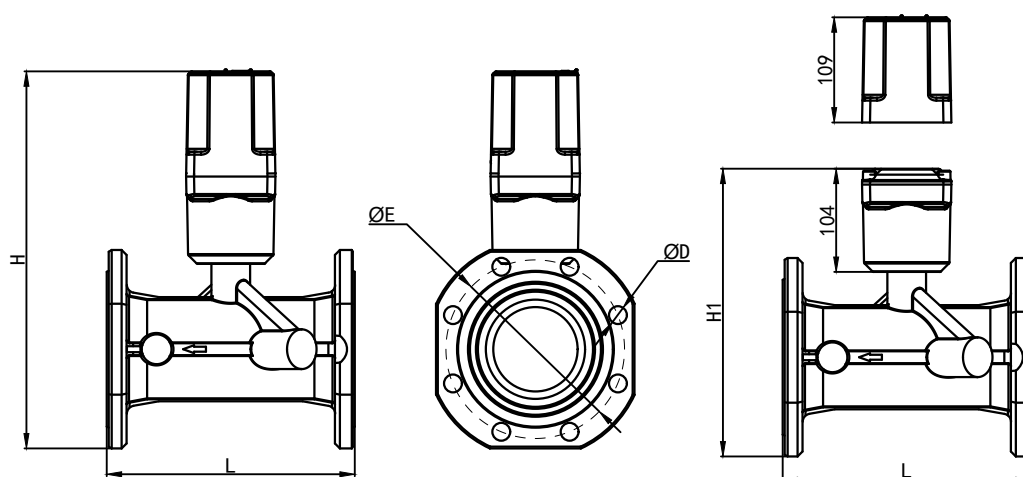
Temperature sensor

Sensor type	Pt1000, 2-wire, class B (EN60751)
Sensor range	0...105°C(WUH1) 0...150°C(WUH3)
Difference temp	3...90K(WUH1) 2...130K(WUH3)
Cable sensor	Silicone
Stem material	316SS
Stem diameter	5.2mm
Immersion length	27mm(DN50~DN65) 85mm(DN80~DN150) 120mm(DN200~DN250) 210mm(DN300~DN400)
Pressure rate	1.6 MPa
Connection	M10*1, brass
Ingress protection	IP65

Flow range

	WUH1										
	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400
$Q_p(m^3/h)$	15	25	40	60	100	150	250	400	600	750	1000
$Q_i(m^3/h)$	0.6	1	1.6	2.4	4	6	10	16	24	30	40
$Q_s(m^3/h)$	30	50	80	120	200	300	500	800	1200	1500	2000
	WUH3										
	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400
$Q_p(m^3/h)$	15	25	40	60	100	150	250	400	600	750	1000
$Q_i(m^3/h)$	0.3	0.5	0.8	1.2	2	3			12	15	20
$Q_s(m^3/h)$	30	50	80	120	200	300	500	800	1200	1500	2000

Dimensions in mm

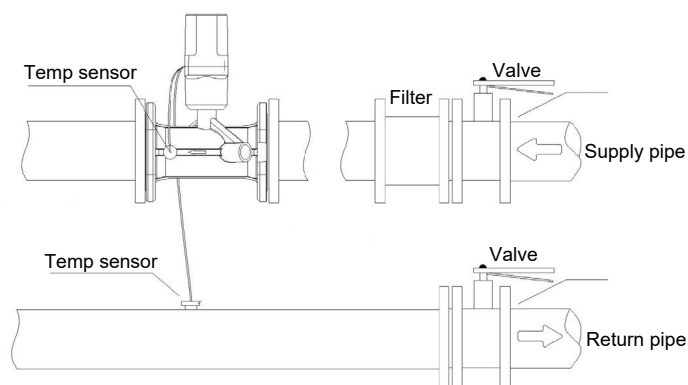


一体式外形尺寸

分体式外形尺寸

DN	L	W	H	H1	E	n*D
50	200	165	332	232	125	4*18
65	200	185	354	254	145	4*18
80	225	200	367	267	160	8*18
100	250	220	390	290	180	8*18
125	250	250	406	306	210	8*18
150	300	285	433	333	240	8*22
200	350	340	510	410	295	12*22
250	450	405	569	469	355	12*26
300	500	460	622	522	410	12*26
350	500	520	678	578	470	16*26
400	500	580	733	633	525	16*30

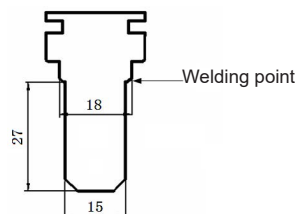
Application drawing



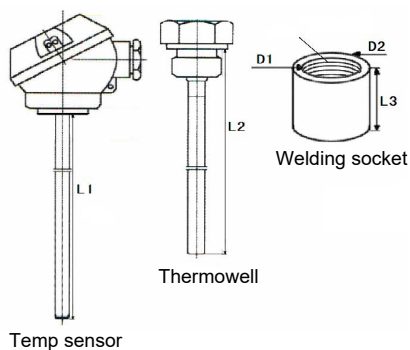
Mounting on supply pipe

Temp sensor installation

A: DN50 to DN65 temp sensor installation



B: DN80 to DN400 temp sensor installation



Dimensions in mm

DN	L1	L2	Welding socket		
			L3	InnerD1	OuterD2
DN80~DN150	120	85	20	18	28
DN200~DN250	165	120			
DN300~DN400	235	210			

Ordering code

		Code	Specifications
1.		WUH1	Universal type
		WUH3	High performance type
2.			Output port
		M	M-BUS
		R	RS-485
		W	470MHz wireless
3.			Accuracy
		1	Class 2 EN1434
4.			Battery capacity
		1	14500mAh
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	DN50
		2	DN65
		3	DN80
		4	DN100
		5	DN125
		6	DN150
		7	DN200
		8	DN250
		9	DN300
		A	DN350
		B	DN400
9.			Mounting position
		S	Mounting on supply pipe
		R	Mounting on return pipe

END