

Ultrasonic liquid flow meter

Clamp-on type

Model : U100 series

Spec. sheet no. UD01-01

Description

WISE aquasonic U100 series clamp-on ultrasonic transit time flow meters are highly accurate, compact and economic flow measurement instruments.

These are used for all pipes and fluids that can be penetrated by ultrasonic wave.

WISE aquasonic measuring method is non-intrusive with no moving parts so it has no pressure drop and energy loss.



Advantages

- 1% accuracy clamp-on liquid flowmeter for industrial applications
- Easy and quick installation
- Temperature compensation
- Wide turn-down ratio over 100:1
- No flow-stop for Zero-calibration
- Versatile external input / output interfaces
- One time calibration
- Minimal maintenance

Specification

Fluid

Ultrasonically conductive fluids
Pure water, Clean water
Waste water, Industrial water
River & sea water, etc.

Repeatability

±0.25%

Fluid temperature range

-20°C ~ +60°C

Data refresh rate

1 Hz

Measurement method

Correlation transit time

Display

128*64 graphics LCD

Pipe size

40A ~ 6000A

Keypad

4 keypad buttons

Range

-12 m/s ~ +12 m/s

Power supply

20 to 30 VDC

Accuracy

1% ≥ 0.3 m/s

Input / Output

Relay output 2 channel

Pulse output

4-20 mA DC output

Contact input

RS-232C serial communication

Non-linearity

±0.1%

Main order

Ordering information

1. Base model

U100 Ultrasonic liquid flow meter clamp-on type

2. Number of path

- S** Single path
- D** Dual path

3. Serial communication

- 2** RS-232
- 4** RS-485

4. Power supply

- D** 20 to 30 VDC
- A** 100 to 240 VAC

5. Pipe size

- S** Small pipe (40 ~ 100A)
- M** Middle pipe (80 ~ 500A)
- L** Large pipe (450A ~)

6. Mounting

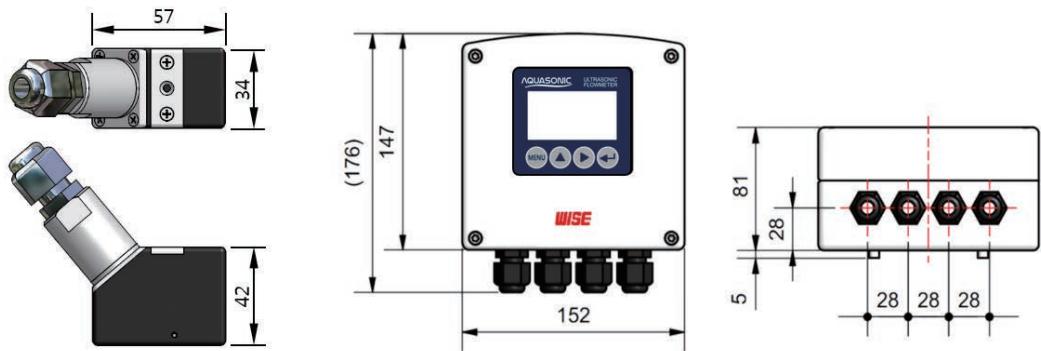
- P** Pipe mount
- W** Wall mount

1 U100	2 S	3 2	4 D	5 S	6 P
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Sample ordering code

WISE®

Electrical connection



Input / Outputs

1	2	3	4	5	6	7	8	9	10	11	12	13
GND	RX(B)	TX(A)	AO(-)	AO(+)	DO ₃ (-)	DO ₃ (+)	DO ₂ (-)	DO ₂ (+)	DO ₁ (-)	DO ₁ (+)	DI(-)	DI(+)
RS-232/RS-485			4-20 mA		Pulse output		Relay2		Relay1			

Memo