

UA102T

Ultrasonic Flowmeter

Non-Invasive Flow & Temperature Measurement

UniArms UA102T ultrasonic flowmeter is a non-invasive flowmeter for measuring flow rate, flow totalizer and temperature with a volume pulse output, modbus and 4-20mA output. It just take less than 2 minutes to install and there is no need to cut or modify the pipe.

Friendly, Visualized, rugged and reliable, the UA102T has been designed to provide sustained performance in industrial applications.



Product Features



COMMON USES FOR FLUIDS IN FACTORY ENVIRONMENTS

Fluids are used all throughout facilities, each with its own usage and purpose.
Example: Plate washer water to wash the PCB.

What types of FLUIDS do you utilize in your processes?

Water

oil

Chemical

How are these fluids used?

Cooling

cleansing

handling

How are you addressing these common flow issues?

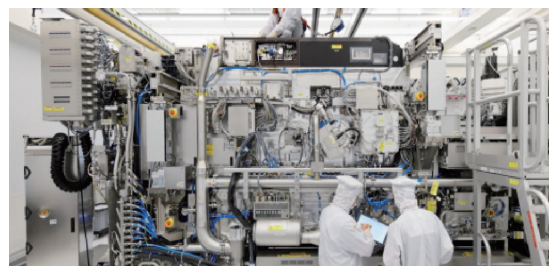
Cooling

Machine Protection

Usage of actual fluid

What our Clamp on flow meter could provide?

- Monitor flow and temperature directly on unit;
- Check dosage of the liquid;
- Sending signal to PLC;
- Track operation to improve efficiency.



Installation steps



1 Clean the tube

Make sure there is no dirt, paint or other stains on the surface of the pipe

2 Install the bracket

Align the flow meter bracket to the pipe, fasten the 4 screws on the up bracket to the down bracket to make sure the bracket well wrapped to the pipe.

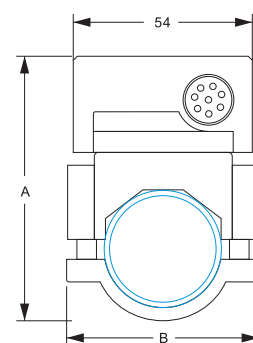


✓ Install the sensor and power on

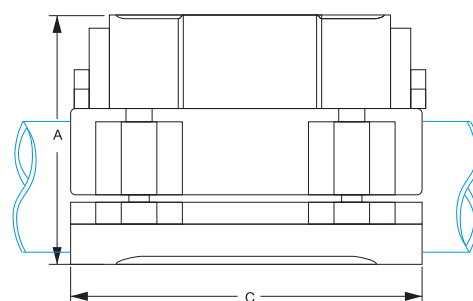
Install the whole unit and fasten the unit on the bracket, power on, and see if the $SQ \geq 50$ which indicates that the measurement has been stable.

Product Dimension

Model	DN	NB	A max (mm)	B (mm)	C (mm)
-φ9.53	DN6	1/8"	80	58	106
-φ12.7	DN8	1/4"	80	58	106
-φ15	DN10	3/8"	80	58	106
-φ20	DN15	1/2"	86	58	106
-φ25	DN20	3/4"	86	58	106
-φ32	DN25	1"	91	58	106
-φ40	DN32	1 1/4"	101	68	106
-φ50	DN40	1 1/2"	110	78	106
-φ63	DN50	2"	126	91	130
-φ75	DN65	2 1/2"	139	105	136
-φ90	DN80	3"	154	119	150
-φ110	DN100	4"	177	143	174



Front view



Profile

Specification

Product	Clamp On Type Ultrasonic Flow Meter
Accuracy	+/-2.0% (at 0.3m/s to 5.0m/s)
Flow range	0.1 m/s-5.0m/s
Linearity	+/-2.0% (at 0.3m/s to 5.0m/s)
Repeatability	0.8%
Response	50ms
Display screen	2.4" 320*240 IPS LCD can 360 spins (easy to read)
Language	English, Chinese Simplified, Chinese Traditional
Display unit	Metric and English units are available, m ³ /h、LPM、ml/min、GPM、LPH, Default unit setting: m ³ /h
Display data	Flow rate, Flow velocity, net totalizer, single totalizer, Daily max, Daily min, day-month-year totalizer
Number of displays	Display 7 digits
Data storage	10 years, 64 months, 64 days
Keypad	4 touch key
Calendar battery	CR1220
Power supply	24VDC@3W
Analog output	4 ~ 20mA, Maximum load: 600Ω
Communication	RS485, support Modbus RTU protocol
Alarm output	OCT, Upper and lower limit alarm function
Relay output	(standard configuration) 30VDC@1A, switching frequency less than 2Hz
Medium	Water, Chemical solvents etc (inclusions less 4%)
IP Grade	IP65
Installation	Compact Unit, upper and down bracket and Measure Unit tightened by screws
Pipe range	OD9.53-OD110 (DN6-DN100)
Housing material	Aluminum alloy
Medium temp	Compact type : -10°C-50°C
Environment temp	-10°C-50°C
Environment humidity	0-95% relative humidity, without condensation
Viscosity	<300CST (mm ² /s)
Cable length	stand length: 2m (Can be extended to 20 m.)