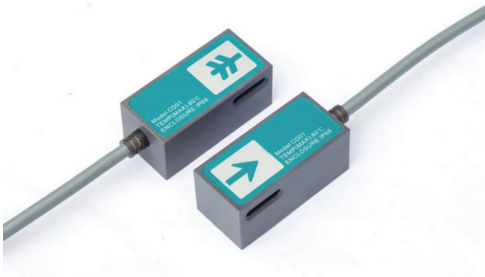


# Product Manual | Ultrasonic Flowmeter 201(Wall-mounted)



## Introduction

VAC201 is a wall-mount, clamp-on type ultrasonic flow meter which uses the transfer time technology. Designed using FPGA chip and low-voltage broadband pulse transmission. Both Clamp on type sensors and Insertion type sensors are available. 201 has a 240\*128 backlit LCD with 4 line menu display and also the clear, user-friendly menu selections make flow meter more simple and convenient to use. Daily, monthly and yearly totalized flow. Parallel operation of positive, negative and net flow totalizes with scale factor (span) and BTU Capacity. While the output of totalize pulse and frequency output are transmitted via relay and open collector.



VAC201 could add the RTD model and temperature sensor become an energy meter to monitoring the energy use, help to save the energy.

## Application

VAC201 ultrasonic flow meter widely application in HVAC, water treatment , irrigation.

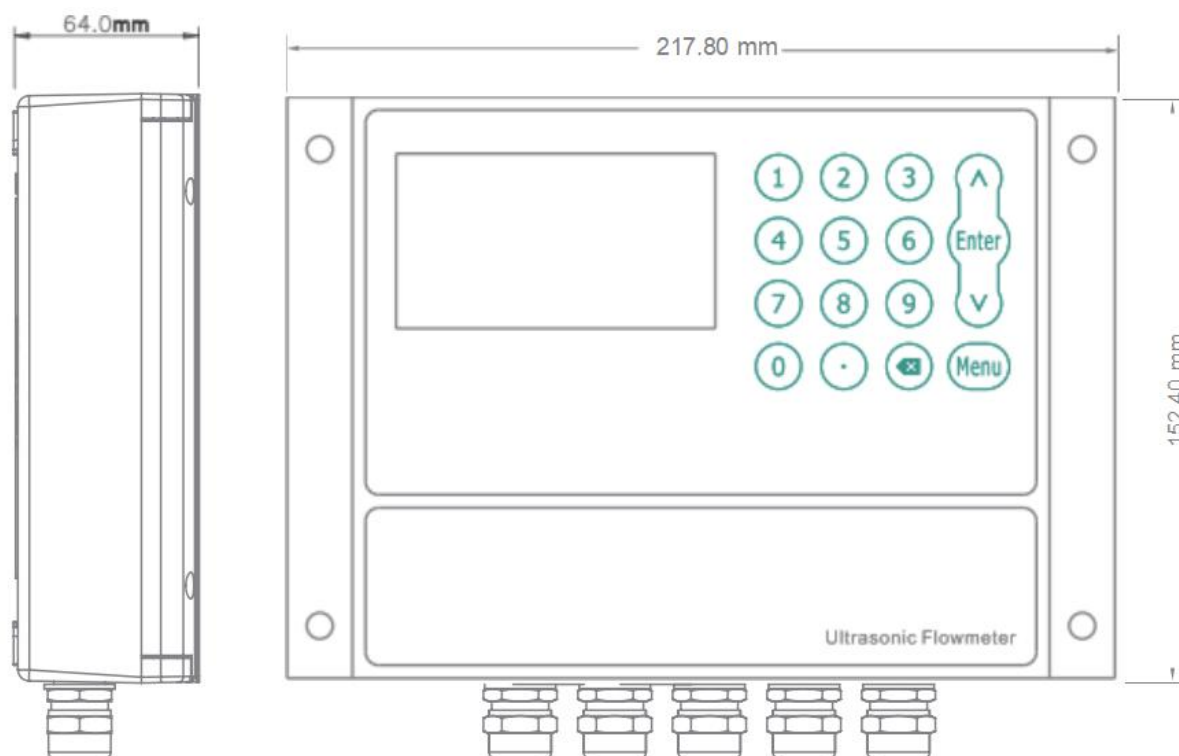


## Technical parameters:

Performance	
Flow range	$\pm 0.09\text{ft/s} \sim \pm 16\text{ft/s}$ ( $\pm 0.03\text{m/s} \sim \pm 5\text{m/s}$ )
Accuracy	$\pm 1\%$ of measured value
Repeatability	0.2% of measured value
Linearity	$\pm 1\%$
Pipe size	1"to 48" (25mm to 1200mm). Pipe size under 1" is an option
Fluid	Water
Function	
Outputs	Analog output: 4~20mA, max load 750 $\Omega$ . Pulse output: 0~10KHz
Communication	RS232/RS485 Modbus
Power supply	10~36VDC/1A
Display	240*128 backlit LCD
Temperature	Transmitter: $-14^{\circ}\text{F} \sim 140^{\circ}\text{F}$ ( $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$ ) Transducer: $-40^{\circ}\text{F} \sim 176^{\circ}\text{F}$ ( $-40^{\circ}\text{C} \sim 80^{\circ}\text{C}$ , standard)
Humidity	Up to 99% RH, non-condensing
Physical	
Transmitter	PC/ABS, IP65
Transducer	ABS, IP68 Encapsulated design Double-shielded transducer cable Standard/maximum cable length: 30ft/900ft (9m/274m)

## Product Size

### Transmitter size

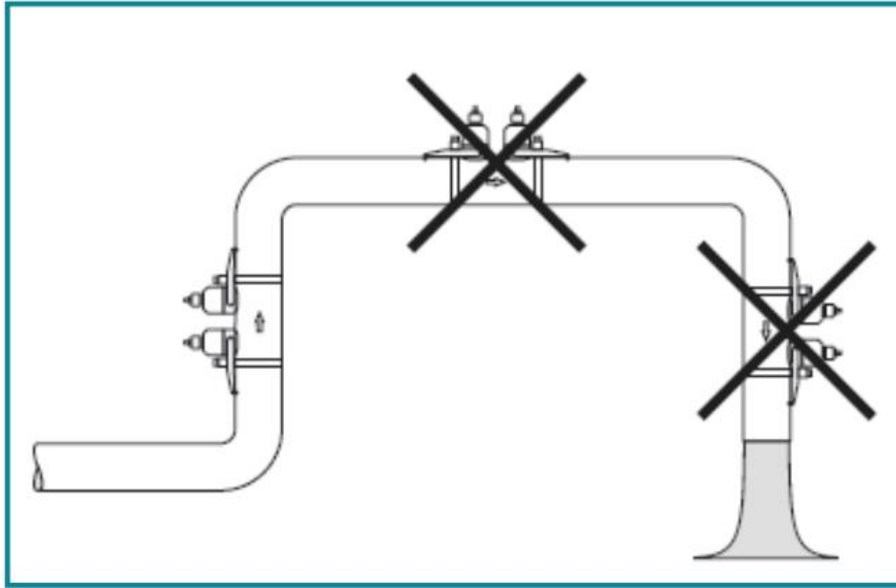


### Transducer Size

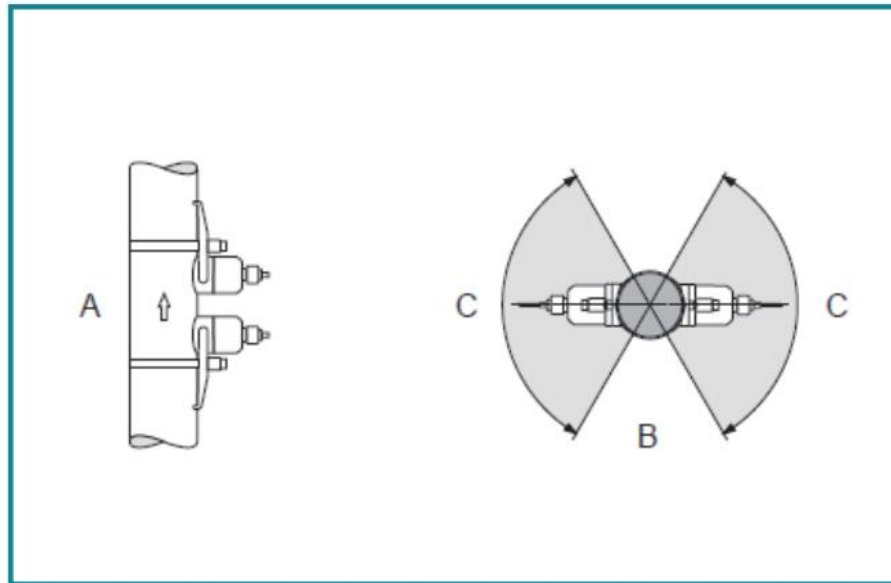


## Installation site selection

The first condition for ultrasonic flow meter is the pipe must be full of liquid, the bubbles will greatly influence the accuracy of the measurement, please avoid the follow installation position:



The suggestion installation area is as following:



A is for upright pipeline , please notice the water direction is from the bottom to top.

B is for horizontal pipeline , the transducers need to be installed inside the C area , angle for area C, max 120° .



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