

# Cadillac Meter

CU-TE Compact Ultrasonic Transit Time Flow/Energy Meter



—— Clamp On Type- Small Pipe Size Solution

15615 SW 74th Ave, Bldg #150  
Tigard, OR 97223

Central Station Steam Company

Phone: 888-556-3913  
Website: [www.cadillacmeter.com](http://www.cadillacmeter.com)









## Cadillac CU-TE Compact Ultrasonic Flow Meter

### Product Features

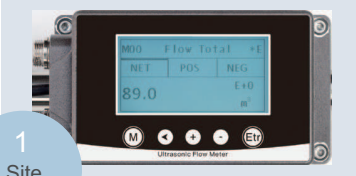
- Easily and friendly for installation and operation. It only takes a few minutes, from the start of installation to using the flow meter.
- Adopts a new external clamp design, which could get the flow rate without touch the measurement medium. Compared with other traditional flow meter, this could avoid pressure loss or media contamination problems.
- As the advantage of a clamp on flow meter, no need to cut off the pipe or long time stop the equipment, save the cost of time and labor costs.
- A variety of modes are available for setting and flexibility. One set is universal for all pipe size in the measuring range, and suitable for many kinds of metal and resin pipes.
- 256\*128 LCD display. Display a variety of information.
- It is optional to become an ultrasonic cooling (heat) meter/ btu meter/ energy meter to realize the monitoring and measurement of energy.



Suitable for various liquids and compatible with various pipeline materials and sizes:

1 Applicable fluid	 Water	 Oil	 Chemical		
2 Compatible piping material	Metal pipe Stainless steel, Carbon steel , Copper			Resin pipe PVC, Other	
	 Stainless steel	 Carbon steel	 Copper	 PVC	 Other
3 Compatible pipe line size	<b>0.5" to 2.5"</b> <b>(Inner diameter 0.5" ~ Inner diameter 2.56")</b>				

Provide many aspects of help for different flow measurement application requirements:



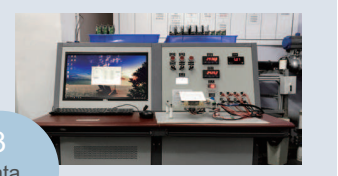
1  
Site display

Monitor the flow rate reading directly on the device.



2  
Remote monitoring

With the help of output, could send the information to PLC, central control room and etc.



3  
Data analysis

Record the data to improve efficiency.

## Specification

Pipe material	Metal /PVC, PP or PVDF rigid plastic pipe
Liquid type	Water/other liquid (Single liquid medium without solid particles or impurities)
Temperature range	0-240F (No freezing on the surface)
Low velocity cut off value (Default by factory)	0.33 ft/s
Display	256*128, LCD
Response time	0.5~60s
Accuracy	±2%, (±1% after calibration)
Data Storage period	300ms
Memory for data backup	EEPROM (Data storage: over 10 years, data read/write frequency: over 1 million times)
Power and I/O connection	M12 type aviation plug
Output	4-20mA
Communication	Modbus RS485
(Options for output)	OCT (pulse output)/ One relay alarm (please contact the factory)
Power supply	10-24V VDC
Electric power	< 3W
Protective circuit	Power reverse connection protection, Power surge protection, Output short circuit protection, Output surge protection
Enclosure protection class	IP65
Environment temperature	-10 to 60°C (No freezing)
Relative humidity	35 to 85% RH (No condensation)
Vibration resistance	10 to 55 Hz, double amplitude 1.5 mm, 2 hours in each XYZ axis
Impact resistant	100 m/s <sup>2</sup> 16 ms pulse, 1000 times each for X, Y and Z axis
Main material	Aluminum, Industrial Plastics
cable length	6.5ft(standard ), PT1000 sensor standard cable length is 30ft

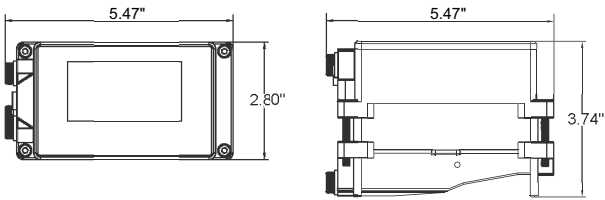
## Flow Range

Pipe size (IN)	Upper flow value (gal/min)
0.50"	15 gpm
0.75"	25 gpm
1.00"	50 gpm
1.25"	80 gpm
1.50"	105 gpm
2.00"	155 gpm
2.50"	260 gpm

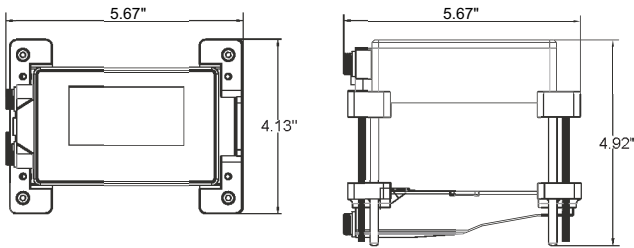
Notice: The minimum measurable pipe size is the inner diameter  $\geq 0.5"$

## Size Drawing (Unit: inch)

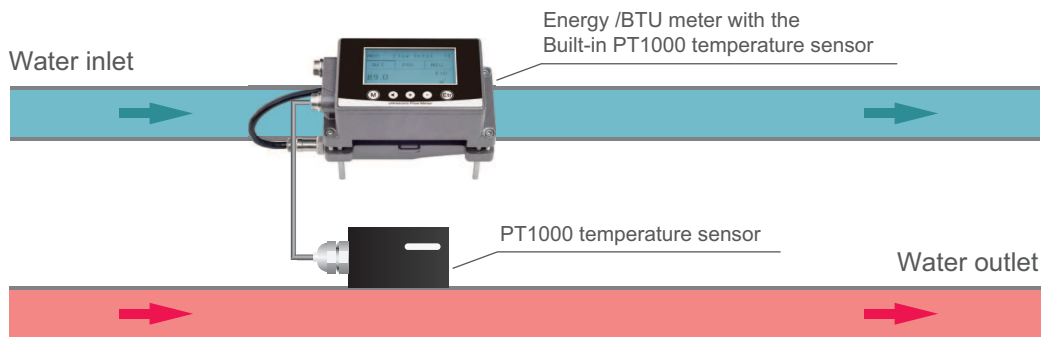
0.5"-1.5"



2.0"-2.5"



## Ultrasonic energy /BTU meter



**Cadillac CU-TE Compact Meter Modle Code Matrix**

<b>CU-TE-C-</b>	<b>Pipe size</b>	
	A	0.50"
	B	0.75"
	C	1.00"
	D	1.25"
	E	1.50"
	F	2.00"
	G	2.50"
	<b>Fluid type:</b>	
	1	Water
	2	Others, pls clarify it
	<b>Flow/Heat</b>	
	F	Flow
	H	Flow/Heat with Pt1000 temp. sensor
	<b>Ultrasonic Sensor cable</b>	
	S	Standard length-6.5ft
	X	Xft cable
	<b>Type of Transducer</b>	
	T1	0-150F
	T2	0-240F
	<b>Output(only choose 2 out of 4)</b>	
	A	4-20mA
	M	Modbus(RS485)
	O	OCT(Frequency)
	R	1pc Relay
	<b>Temperature sensor length</b>	
	N	No temp. sensor
	30	Standard length-30ft
	50	Ext cable length-50ft
	80	Ext cable length-80ft