

Ultrasonic Flow Meter Model: MDUF 101

Applications

- Oil industry
- Water treatment
- Pure water
- Chemical and etc
- Check system meters
- Midstream and downstream(pipelines and refineres)
- Energy sector (e.g. HVAC, geothermal, power plants)

Special features

- Easy to install, reduced installation time and cost Without Cutting of the pipe
- No pressure head loss, No moving parts to maintain or replace
- BTU function is an option. MDUF 101 could be used as a ultrasonic energy meter.
- Powerful data storage and also support the data sheet analysis software
- Support 1" to 200" and temperature -40 to 180°C
- Unique calculation software with high accuracy
- Rate of sampling is greater than 300 times/s

Description

Accuracy class
 Repeatability
 0.5% of measured value
 0.15% of measured value

■ Flow range ±0.09 ft/d ~ ±40 ft/s (±0.01 m/s ~ ± 12m/s)

TransmitterFluidLiquids

Pipe material
 Carbon steel, stainless steel, PVC and other compact

material pipe

Outputs
 Analog output:4~20mA,max load 750Ω.

Pulse output: 0~9999Hz,OCT

(min.and max.frequency is adjustable)

SD card 16G

Interval 1~99999 seconds
 Display 240*'128 back light LCD

Humidity
 Up to99% RH,non-condensing

■ **Temperature** Transmitter: -40°F~140°F(-40°C~60°C)

Transducer:-40°F~176°F(-40°C~80°C,standard)

■ **Power supply** 90 ~ 245VAC, 48 ~ 63Hz or 10 ~ 36VDC

■ Transmitter IP 65

Transducer
 IP 68 / Double-shielded transducer cable

Standard/maximum cable length:30ft/900ft(9m/274m)

Transducer cable
 Standard cable lenghth: (30ft)

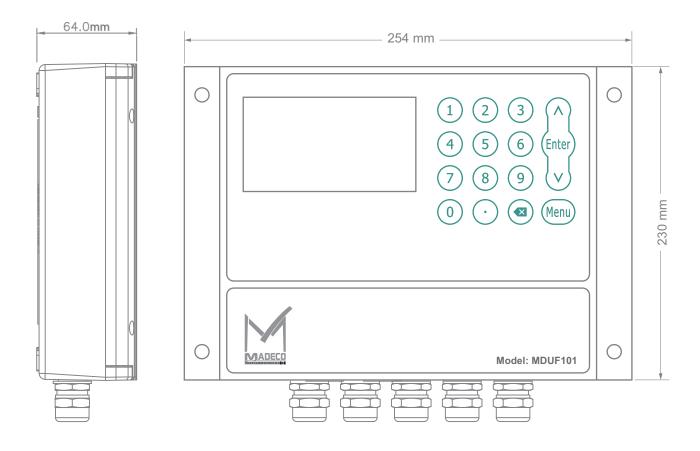




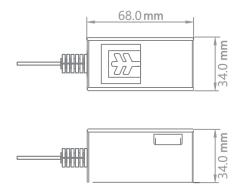


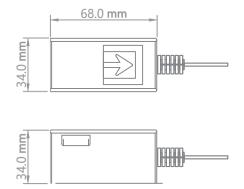
Product size

Transmitter size



Transducer size





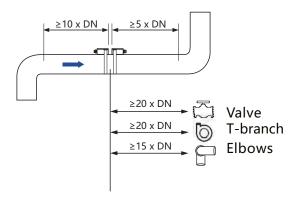


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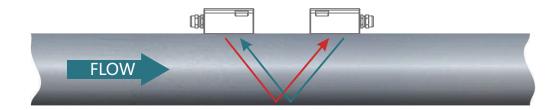
Straight pipe demand

We suggest avoiding the valve, T-branch pipe and elbows if the condition allow. Please satisfied the hardest position installation requirements when you face more than one interfering resource.



Measuring prin ciple

Transfer time technical means the ultrasonic singal from the transducer is transmitted and receved through the moving liquid, there will can be used to calculate flow and velocity.



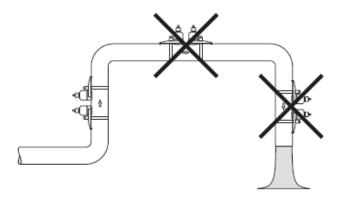




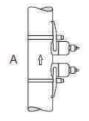
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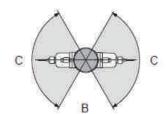
Installation site selection

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:





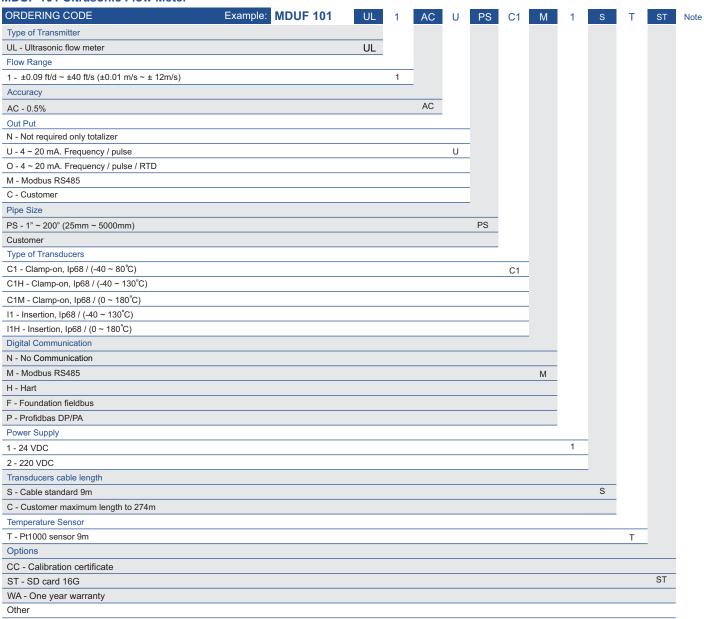
- A is for upright pipeline, please notice the water direction is from the bottom to top.
- B is for horizontal pipeline, the transducers need to be installed inside the C area, angle for area C, max 120°.





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MDUF 101 Ultrasonic Flow Meter









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