Portable Ultrasonic Flow Meter
Model: MDUF P100

Applications

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

Special features

- Easy to install, reduced installation time and cost
- No pressure head loss, No moving parts to maintain or replace
- BTU function is an option. MDUF P100 could be used as a portable ultrasonic energy meter.
- Powerful data storage and also support the data sheet analysis software
- Support 1" to 48" and temperature -40 t0 130°C

Description

Accuracy class	1% of measured value
Flow rate	±0.03 ft/d ~ ±40 ft/s (±0.01 m/s ~ ±12m/s)
Pipe size	Clamp-on:1"~48"(25mm~1200mm)
Fluid	Single medium liquid
Pipe material	Carbon steel,stainless steel,PVC and other compact material pipe
Outputs	Analog output:4~20mA,Max750Ω.Modbus
SD card	16G
Interval	1~99999 seconds
Display	240*'128 back light LCD
Key broad	Digital keys
Humidity	Up to99% RH,non-condensing
Temperature	Transmitter:-40°C ~ 60°C Transducer:-40 C ~ 80 C(-40°C ~ 130°C is an option)
Power supply	Rechargeable Lithium Battery Power , 3000mAh (Continuous operation of main battery 16 hours).
Transmitter	NEMA13,IP54
Transducer	Encapsulated design,Ip68
Transducer cable	Standard cable length: (16ft)

Measuring principle

Transfer time technical means the ultrasonic signal from the transducer is transmitted and received through the moving liquid, there will be a difference between the upstream and downstream transit time, which can be used to calculate flow and velocity.
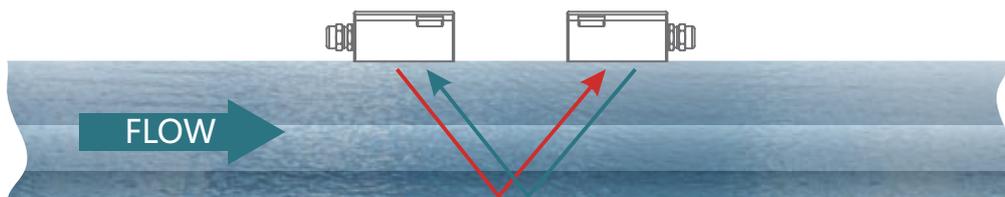
An ultrasonic meter equipped with heat flow capabilities measures the rate and quantity of heat delivered or removed from devices such as heat exchangers. By measuring the volumetric flow rate of the heat exchanger liquid, the temperature at the inlet pipe and the temperature at the outlet pipe, the energy usage can be calculated.

MDUF P100 Portable Ultrasonic Flow Meter

ORDERING CODE	Example: **MDUF P100**	UL	SL	AC	U	PS	CL	M	1	S	T	AT	Note
Type of Transmitter													
UL - Ultrasonic flow meter		UL											
UT - Ultrasonic energy /Btu meter function (RTD)													
Flow Range													
SL - ±0.03 ft/d ~ ±40 ft/s (+0.01 m/s ~ ±12m/s)			SL										
Accuracy													
AC - 1%				AC									
Out Put													
N - Not required only totalizer													
U - 4 ~ 20 mA. Frequency / pulse					U								
M - Modbus RS485													
C - Customer													
Pipe Size													
PS - 1" ~ 48" (25mm ~ 1200mm)						PS							
Type of Transducers													
CL - Clamp-on, Ip68 / (-40 ~ 80℃)							CL						
CU - Clamp-on, Ip68 / (-40 ~ 130℃)													
CW - Insertion, Ip68 / (-40 ~ 130℃)													
Digital Communication													
N - No Communication													
M - Modbus RS485								M					
H - Hart													
F - Foundation fieldbus													
P - Profibus DP/PA													
Mounting Bracket													
1 - Single guide mounting type bracket									1				
2 - Dual guide mounting type bracket													
Transducers cable length													
S - Cable standard 5m										S			
C - Customer maximum length to 30m													
Temperature Sensor													
T - Pt1000 sensor 9m											T		
Options													
CC - Calibration certificate													
AT - ATEX												AT	
WA - One year warranty													
Other													