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Stellar INSTRUMENTS
INSTRUMENTS
UFM100 Portable
Ultrasonic
Flowmeter

Stellar INSTRUMENTS UFM100 Portable Ultrasonic Flowmeter User Manual

Contents

Stellar INSTRUMENTS UFM100 Portable Ultrasonic Flowmeter

Product Usage Instructions

- Attach the external clamp t
- Connect the flowmeter to power and set the desired flow unit and parameters. The flow direction can be adjusted accordingly. Monitor the flow readings on the display.
- Regularly check for any sensor or connection issues. Clean the sensor and transducer as recommended in the manual to ensure accurate readings.

FAQ

- Q: What types of liquids can the UFM100 measure?
- A: The UFM100 can measure various liquids including drinking water, industrial sewage, fuel oil, chemical liquid, etc.
- Q: What is the communication protocol supported by the UFM100?
- A: The UFM100 supports MODBUS RTU RS485 communication protocol (optional).
- Q: How do I select the flow unit on the UFM100?
- A: You can select the flow unit in terms of time – per day, per hour, per minute, or per second using the settings menu on the device.
- Q: What is the recommended maintenance for the UFM100?
- A: Regularly check for any sensor or connection issues and clean the sensor and transducer as per the manual to maintain accurate readings.

INTRODUCTION

The hand-held ultrasonic flowmeter UFM series is the latest flowmeter with more accurate measurement which is better than ± 1%.
UFM100 uses an external clamp type sensor to measure the liquid flow. The installation process is very simple, and easier to operate. It is especially suitable for flow balance test and flow monitoring: drinking water, river water, sea water, cooling water, hot water, industrial sewage, lubricating oil, diesel oil, fuel oil, chemical liquid, etc.

FEATURES

- High precision measurement
- Non contact measurement
- Different types of sensors can be used to measure the flow of DN15 ~ DN6000 pipes Measurement accuracy is

better than ± 1%

- Comes with 3 pair of transducer

TECHNICAL SPECIFICATION

Pipe Size	DN15mm-DN6000mm	
Transducer	DN15mm-DN 100mm	30°C~90°C
	DN 70mm-DN 700mm	30°C~90°C
	DN 300mm-DN 6000mm	30°C~90°C
Accuracy	±1% of reading at rates>0.2 m/s	
Repeatability	0.2%	
Velocity	+32m/s	
Flow rate	Cubic meter (m3) Cubic feet (cf) Liter (l) USA liquid barrel (bal) USA gallon (gal) Oil barrel (ob) The flow unit in terms of time can be per day, per hour, per minute or per second.	
Pipe Material	Carbon Steel, stainless steel, cast iron, cement pipe, copper, PVC, aluminum, FRP	
Liquid Types	Water, sea water, industrial sewage, acid & alkali liquid, alcohol, beer, all kinds of oils which can transmit ultrasonic single uniform liquid	
Liquid Temperature	30°C~90°C	
Liquid Turbidity	Less than 10000ppm	
Flow Direction	Bi-directional measuring	
Communication	MODBUS RTU RS485 (optional)	
Power Consumption	<1.5W	
Power Supply	220V AC/24V DC	

Specifications subject to change without notice

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Documents / Resources

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UFM100, UFM100 Portable Ultrasonic Flowmeter, UFM100, Portable Ultrasonic Flowmeter, Ultrasonic Flowmeter, Flowmeter

References

- 🌐 **Stellar Instruments**
- **User Manual**