

Measurement Unlimited by The Imagination.

Portable Ultrasonic Flowmeter

UFP-20



intelligent
DIGITAL
MEASUREMENT

Features

1. Multi-flow Measurement Function

Easy configurable for 2-channel or 2-path measurement

2. Energy Meter Function

Energy flow rate measurement with Pt-100 RTD option

3. Receiving-echo Monitor Function

Visual confirmation whether receiving echo is "Good" or "No good"

4. Weather-proof structure IP65

IP65 rating maintained even during measurement

5. USB Memory Data Transfer

Logged data in UFP-20 can be transferred via USB memory device to a PC.

Specifications

Measurement	Method	Ultrasonic pulse transit time difference method		
	Diameter Range	DN 13mm ~ 5000mm		
	Accuracy	Pipe Diameter	Velocity \geq 1m/s	Velocity < 1m/s
		DN 13mm (*2) ~ 90mm (DN 20mm ~ 50mm) (*1)	$\pm 2.0\%$ R.D. ($\pm 2.0\% \sim \pm 5.0\%$) (*1)	± 0.02 m/s R.D. (± 0.02 m/s \sim ± 0.05 m/s) (*1)
DN 100mm ~ 250mm DN 300mm ~ 5000mm		$\pm 1.5\%$ R.D. $\pm 1.0\%$ R.D.	± 0.015 m/s ± 0.01 m/s	
Transducer		Applicable Diameter	Applicable Temperature	
	Small Transducer	DN 13mm ~ 50mm	$-20^{\circ}\text{C} \sim 120^{\circ}\text{C}$	
	Medium Transducer	DN 65mm ~ 500mm (DN 20mm ~ 50mm) (*1)	$-20^{\circ}\text{C} \sim 120^{\circ}\text{C}$	
	Large Transducer	DN 300mm ~ 5000mm	$-20^{\circ}\text{C} \sim 80^{\circ}\text{C}$	
	Cable Length	7m as standard (157m Max. Extendable)		
Output	Analog Output	1port; 4 - 20mA Allowable load resistance 550 Ω Max.		
Temperature Input	4pcs of RTD (Pt - 100) as Max.			
Data Logging	Internal logged data transferred through USB memory in CSV format			
Function	EASY interfacing with Installation Wizard Self - diagnostics Low flow cut Zero shift Span compensation 2 - channel / 2 - path measurement (with additional pair of transducers) Thickness meter function (Range: 1mm ~ 100mm / Accuracy: ± 0.1 mm or $\pm 1.5\%$ R.D.)		Sonic Velocity measurement function (Range: 500m/s ~ 3000m/s / Accuracy: $\pm 5\%$) Filtering Echo - wave form monitor Multi - language support (English, French, German, Italian, Portuguese, Russian, Spanish, Turkish) Metric / English (inch, gallon or barrel) units selectable	
	Protection degree	IEC 60529 Protection Degree IP65 (Main Unit and Transducers)		
Internal Battery	8 hours as Max. / Rapid charging 4 hours			

(*1): Medium transducer is recommended for measurement of DN 20mm ~ 50mm pipe which attenuates sonically like Zinc - coated - pipe.

(*2): Site calibration will be required.

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Design and specifications are subject to change without prior notice, and without any obligation on the part of the manufacturer.




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