

Measurement Unlimited by The Imagination.

Portable Ultrasonic Flowmeter

# UFP-20



intelligent  
**DIGITAL**

## 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.

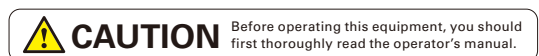
## Specifications

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)	$\pm 0.02\text{m/s}$ R.D. ( $\pm 0.02\text{m/s} \sim \pm 0.05\text{m/s}$ ) (*1)
DN 100mm ~ 250mm DN 300mm ~ 5000mm		$\pm 1.5\%$ R.D. $\pm 1.0\%$ R.D.	$\pm 0.015\text{m/s}$ $\pm 0.01\text{m/s}$	
Transducer	Applicable Diameter	Applicable Temperature		
	Small Transducer	DN 13mm ~ 50mm	-20°C ~ 120°C	
	Medium Transducer	DN 65mm ~ 500mm (DN 20mm ~ 50mm) (*1)	-20°C ~ 120°C	
	Large Transducer	DN 300mm ~ 5000mm	-20°C ~ 80°C	
	Cable Length	7m as standard (157m Max. Extendable)		
Output	Analog Output	1port; 4 - 20mA Allowable load resistance 550Ω 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; $\pm 0.1\text{mm}$ 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.

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



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