

# **Measurement Unlimited by The Imagination.**

# Portable Ultrasonic Flowmeter

intelligent DIGITAL

TOKYO KEIKI is the First Manufacture of ULTRASONIC FLOWMETER among the WORLD since 1963. TOKYO KEIKI INC.

#### Portable Ultrasonic Flowmeter





### **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 ≧ 1m/s	Velocity < 1m/s					
		DN 13mm (*2) ~ 90mm	±2.0% R.D.	±0.02m/s R.D.					
		(DN 20mm ~ 50mm) (*1)	(±2.0% ~ ±5.0%) (*1)	(±0.02m/s ~ ±0.05m/s) (*1					
		DN 100mm ~ 250mm	±1.5% R.D.	±0.015m/s					
		DN 300mm ~ 5000mm	±1.0% R.D.	±0.01m/s					
Transducer		Applicable Diameter	Applicable Temperature						
	Small Transducer	DN 13mm ~ 50mm	–20°C ~ 120°C						
	Medium Transducer	DN 65mm ~ 500mm	-20°C ~ 120°C						
		(DN 20mm ~ 50mm) (*1)							
	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		Sonic Velocity measurement function (Range; 500m/s ~ 3000m/s / Accuracy; ±5%) Filtering Echo - wave form monitor Multi - language support (English, French, German, Italian, Portuguese, Russian, Spanish, Turkish)						
					2 - channel / 2 - path measurement (with additional pair of transducers)		Metric / English (inch, gallon or barrel) units selectable		
					Thickness meter function (Range; 1mm ~ 100mm / Accuracy; ±0.1mm or ±1.5% R.D. )				
					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.

**CAUTION** Before operating this equipment, you should first thoroughly read the operator's manual.



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## www.tokyokeiki.jp/e/products/measurement/

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