

**Measurement Unlimited by The Imagination.**

Ultrasonic Flowmeter  
**UFW-100**



intelligent  
**DIGITAL**  
MEASUREMENT



## Features

### 1. Automatic Logging

Totally over 64000 event data (more than 1 month with 1min interval)

### 2. Variety Output

Analog output (Std.), Totalizing output (Std.), Digital port for Config. (Std.) and RS-485 MODBUS (Option)

### 3. Extra A-IN (Option)

1 port for passive analog input is available. Input data will be logged automatically.

### 4. Graphical setup "EZ-wizard" on PC

Parameter forms guides in order like slide-show.

### 5. "EZ-Translation"

Any languages are configurable on PC locally.

### 6. Status signs

LCD indicates any status or operating conditions without PC.

### 7. Echo-wave monitor on PC

This feature helps to identify ideal mounting positions of transducers.

## Specifications

Measurement	Method	Ultrasonic pulse transit time difference method		
	Diameter Range	DN 25mm ~ 600mm		
	Accuracy	Pipe Diameter	Velocity $\geq$ 1m/s	Velocity < 1m/s
		DN25mm ~ 40mm    (*1)	$\pm$ 2.5% R.D.	$\pm$ 0.025m/s
		DN50mm ~ 90mm	$\pm$ 2.0% R.D.	$\pm$ 0.020m/s
		DN100mm ~ 250mm	$\pm$ 1.5% R.D.	$\pm$ 0.015m/s
DN300mm ~ 600mm		$\pm$ 1.0% R.D.	$\pm$ 0.010m/s	
Output	Analog output	1port (Std.)	4-20 mA    Allowable load resistance 600 $\Omega$ Max.	
	Relay output	1port (Std.)	for Totalizing, Warning or Directional output	
	Digital output	1port (Std.)	USB connection / Inter-communication mode	
		1port (Option)	RS-485 / MODBUS-RTU output	
Input	Analog Input	1port (Option)	4-20 mA / Passive input	
Main unit	Protection Degree	IEC60529 IP65		
Transducer	Applicable Temperature	-20 ~ 60°C		
	Protection Degree	IEC 60529 IP65 (Std.) / IEC 60529 IP67 (Option)		
	Cable Length	30m Max. (Applicable cable model : RG-223U)		
Data Logging	Over 68,000 lines (exp. more than 1 month by 1min interval / Interval selectable) Logged Item; Date, time, Instantaneous flow rate, + Total, -Total, Error code and Event status			
Function	PC Graphical parameter setting		Span compensation	
	4 key configurable from the console		Fixed Analog Output	
	Self-diagnostics		Auto Gain Control	
	Disturbance detection		Preset Totalize Start	
	No Echo receiving warning		Data Retention	
	Low flow cut		Echo-wave form monitor	
	Zero shift		Error Status indication	

\*1: Site calibration 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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