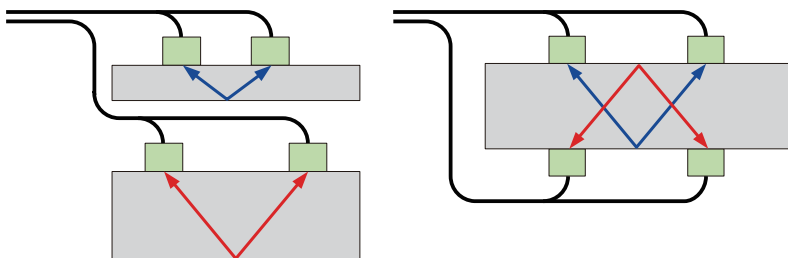


Versatility! Functionality! Reliability!

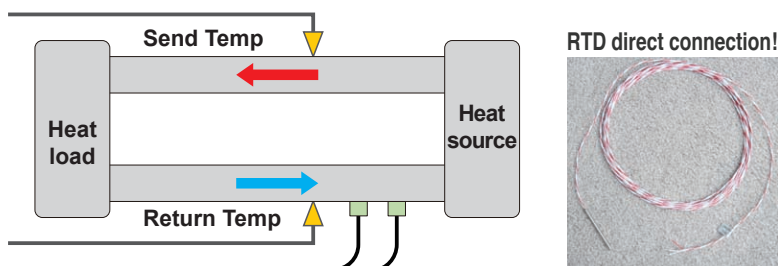
Features



1 Multi-Flow Measurement Function
Easy configurable for 2-Channel or 2-Path measurement.

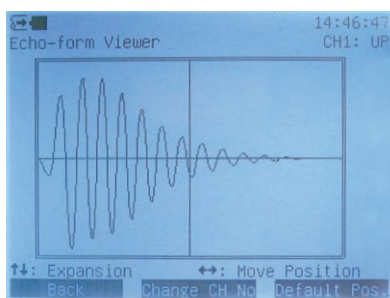


2 Energy Meter Function
Energy flow rate measurements with Pt-100 RTD option.



3 Receiving-Echo Monitor Function

Visual confirmation that receiving echo is "good".



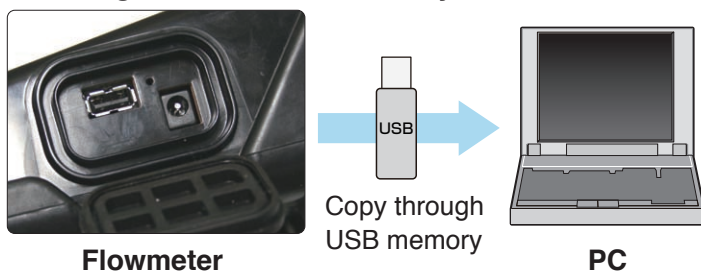
4 Weather-proof structure IP65

IP65 rating maintained even during measurement.



5 USB Memory Data Transfer

Logged data and site conditions can be stored into internal memory.



Weather-Proof connectors

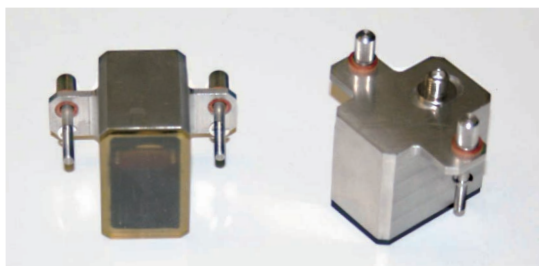
General Specifications

Measurement	Applicable Fluid	Homogeneous and sonically conductive fluids (water, waste water, industrial water, sea water, pure water, oil, ethylene glycol-water solution, etc)	
	Range	Converted to flow velocity: -30 m/s to +30 m/s	
	Method	Ultrasonic pulse transit time difference method	
Pipe Condition	Diameter	DN13 mm ~ DN5000 mm	
	Material	Materials which allow stable transit of ultrasonic waves such as steel, SUS, castings, ductile casting, PVC, FRPM, etc. (Note: Applicable diameters may vary with material.)	
	Lining	None, tar epoxy, mortar, etc.	
Transducer	Applicable diameter	Applicable Temperature	
Small Transducer	DN 13 ~ 50 mm	-20 °C ~ +120 °C	
Medium Transducer	DN 65 ~ 500 mm (DN20 mm~DN50 mm) (*1)	-20 °C ~ +120 °C	
Large Transducer	DN 300 ~ 5000 mm	-20 °C ~ +80 °C	
Measurement Accuracy (of reading)	Velocity ≥ 1 m/s	Velocity < 1 m/s	
DN 13 mm (*2) ~ 90 mm (DN20 mm ~ DN50 mm) (*1)	± 2.0 % (± 2.0 % ~ ± 5.0 %) (*1)	± 0.02 m/s (± 0.02 m/s ~ ± 0.05 m/s) (*1)	
DN 100 mm ~ 250 mm	± 1.5 %	± 0.015 m/s	
DN 300 mm ~ 5000 mm	± 1.0 %	± 0.01 m/s	
Logging Function	Approx. 165,000 points Date, Instantaneous flow rate, +Total, -Total, Flow velocity, Error code (Selectable) Internal logged data transferred through USB memory in CSV format		
Temperature Input	4pcs of RTD (Pt-100) as Max. (For Energy measurement, they can be connected main unit through junction box.)		
Analog Output	1 port ; DC4-20 mA Allowable load resistance 550 Ω Max.		
Display	LCD (320 x 240 Dot Matrix) / high-intensity Backlight equipped		
Function	<ul style="list-style-type: none"> · 2-Channel / 2-Path measurement (with additional pair of transducers) · EASY interfacing with Installation Wizard · Thickness meter function (Range; 1~100 mm / Accuracy; ± 0.1 mm or ± 1.5 %R.D. which is larger) · Sonic Velocity measurement function (Range; 500~3000 m/s / Accuracy; ± 5 %) · Receiving-Echo monitoring function · Multi-Language support (English, French, German, Italian, Portuguese, Russian, Spanish, Turkish) · Metric / English (inch, gallon or barrel) units selectable · Low flow cut · Zero shift / Span compensation · Self-diagnostics · Filtering 		
Cable	7 m as standard (157 m Max. Extendable)		
Ingress Protection	IEC 60529 Protection Degree IP65 (Main Unit and Transducers)		
Power Supply	DC 10 ~ 30 V / AC adaptor applicable on AC 90 ~ 264 V 47 ~ 63 Hz		
Internal Battery	8 hours as Max. / Rapid charging 4 hours		
Operating Temperature	-10 °C ~ +50 °C (for Main unit)		
Dimension & Mass	135 (W) x 250 (L) x 68 (H) / Approx. 1.4 kg (including battery)		

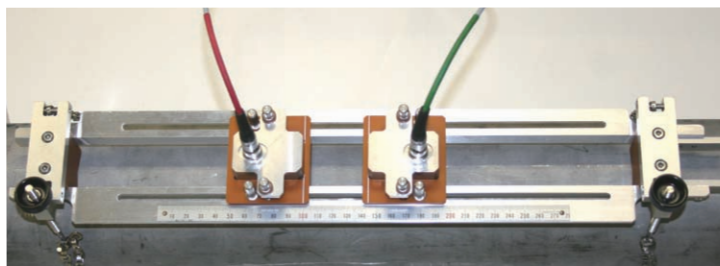
(*1) : Medium transducer is recommended for measurement of DN20 mm ~ DN50 mm pipe which attenuates sonically like Zinc-coated-pipe.

(*2) : Site calibration will be required.

■ Medium Transducer



■ Mounting Fixture for Medium Transducer



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.

TOKYO KEIKI

TOKYO KEIKI INC.

www.tokyo-keiki.co.jp/ryutai/

Control Division I Fluid Management Systems SBU

Head Office

2-16-46, Minami-Kamata, Ohta-ku Tokyo 144-8551, JAPAN
TEL.+81-3-3737-8621 FAX.+81-3-3737-8665