

Certificate of Conformance and Calibration Statement

No. of issue:2379
 Date of issue:03-Sep-2008

Fixed Type Ultrasonic Flowmeter (TimeDelta-C)

Model Converter:FSV
 Detector:FLD22, FLW11, FLW12, FLW41, FLW50, FLW51

We certify that the above flowmeter fully meets the published specifications applicable to the product.
 We further certify that the instrumentation has been calibrated by means of electrical, and volume standards traceable to the National institute for standards and Technology or equivalent and that the calibration was accomplished using generally accepted procedures.

Sensor name	Pipe size	Sensor type
Small sensor	φ 50mm to φ 6000mm	FLW11.FLW41.FLW50.
Small sensor(standard)	φ 50mm to φ 300mm	FLW12.FLW51.
Small diameter sensor	φ 13mm to φ 100mm	FLD22.

Pipe size	Flow velocity	Accuracy	Calibration equipment used
φ 13mm to φ 50mm or less	2 to 32m/s	±2.5% of rate	Dry calibration Oscilloscope Maker:Sony Tektronix/2445B Universal Counter Maker:Advantest/TR5822 Digital Multi Meter Maker:FLUKE/8840A
	0 to 2m/s	±0.05m/s	
φ 50mm to φ 300mm or less	2 to 32m/s	±1.5% of rate	Standard Resistor Maker:Yokogawa/2792-05 Resistance Box Maker:Yokogawa/2786-10 DC Voltage/Current Generator Maker:Yokogawa/2553-41
	0 to 2m/s	±0.03m/s	
φ 300mm to φ 6000mm or less	1 to 32m/s	±1.5% of rate	Calibration Digital Multi Meter Maker:Advantest/R6551 Universal Counter Maker:IWATSU/SC-7201 Standard Tank(volume standard) Maker:CHIYODA/19000L
	0 to 1m/s	±0.015m/s	
Test conditions	Ambient temperature		22°C ± 8°C
	Humidity		30 to 75% RH

Date : 03-Sep-2008	Approved by : <u>T. Kikuchi</u> Takaaki Kikuchi Manager Quality Assurance Dept.
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