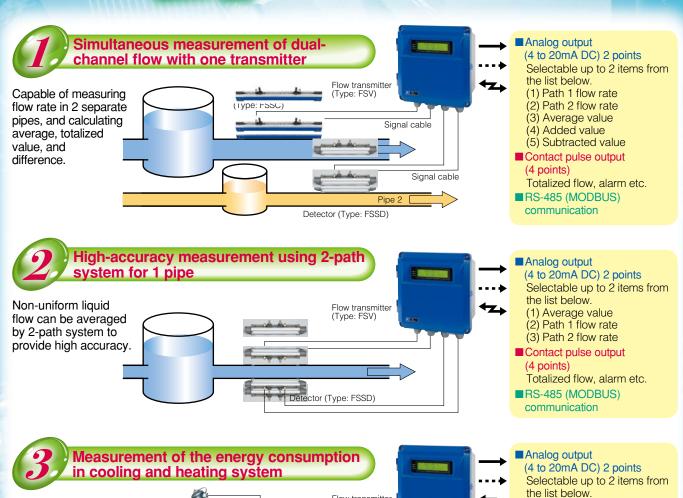
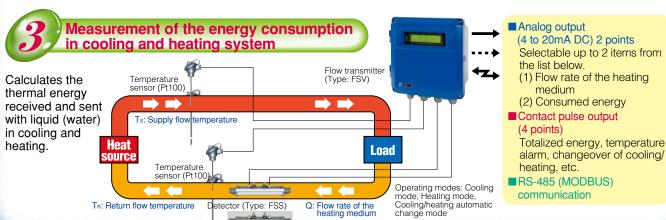


Advanced type

Ultrasonic flowmeter TIME DELTA-C

Dual-channel/dual-path measurement and energy calculation... now available!

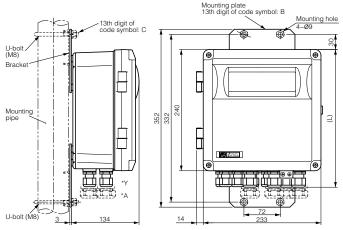




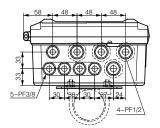
■ Specification: Flow transmitter for energy measurement

Input signal	Two input signals from resistance bulb (Pt100, 3-wire) (One for supply and one for return temperature) Flow velocity signal from detector of return side					
Analog output signal	4 to 20mA DC, 2 points Flow rate of return side, consumed energy					
Digital output	Isolated open collector output, 4 points Totalized energy, temperature alarm, changeover of cooling/heating, forward and reverse totalization, alarm, acting range, flow switch, totalization switch assignable arbitrarily					
Calculation formula	Calculates the thermal energy received and sent with liquid (water) in cooling and heating. Consumed energy (q) = K·Q· T _S ·T _R K: Thermal coefficient (for heating K = 4.123) (for cooling K = 4.186) T _S : Supply flow temperature T _R : Return flow temperature Q: Flow rate of the heating medium					
Totalized value indication *unit is selectable	8-digit numerals (decimal point is counted as 1 digit), two- line display Thermal energy flow: MJ/h, GJ/h, BTU/h, kBTU/h, MBTU/h, kWh, MWh Totalized energy: MJ, GJ, BTU, kBTU, MBTU, kW, MW					
Operation mode	Cooling mode, Heating mode, Cooling/heating automatic change mode					
Temperature input	Resistance bulb (Pt100, 3-wire), input range: -40 to +200°C					
Temperature indication	°C or K					

■ Outline diagram of flow transmitter (unit: mm)



10th digit of code	Wire connection port	L	Applicable cable diameter				
symbol			PF1/2	PF3/8			
*Y	Waterproof gland	273	Ø6 to 12				
*A	Waterproof gland with union (for plica tube PV-5#17)	294	Ø14 max.	Ø5 to 10			



■ Specification: Flow transmitter for 2-channel measurement

Input signal	Flow velocity signals from two detectors					
Analog output signal	4 to 20mA DC, 2 points Selectable up to 2 items from the list below. (1) Path 1 flow rate (2) Path 2 flow rate (3) Average value (4) Added value (5) Subtracted value					
Digital output	Isolated open collector output, 4 points Forward and reverse totalization, alarm, acting range, flow switch, totalization switch assignable arbitrarily					
Flow rate indication	8-digit numerals (decimal point is counted as 1 digit), two-line display					

■ Common specification

Detector	Туре	Applicable pipe size (inner diameter) (mm)	Fluid tempera- ture range (°C)	Mounting method			
	FSSA			V method			
	FSSC	50 to 1200	-40 to +120	V or Z method			
	FSSD	13 to 100	-40 to +100	V method			
	FSSE	200 to 6000	-40 to +80	V or Z method			
	FSSH	50 to 400	-40 to +200	V or Z method			
Applicable pipe material	Plastic, etc. Metal pipe (SS, steel pipe, copper pipe, aluminum pipe, etc.)						
Response time	0.5 sec. (0.2 sec. depending on setting)						
Accuracy rating	±1.0% of rate						
Power supply voltage	100 to 240VAC 50/60Hz						

■ Code symbol for flow transmitter

	FSV				1 :	2 -	- L	-			
Digit	Description	1	1	1	1	1	1	,	† '	1	1
4	<display> Japanese English</display>	S E									
5	<communication> None RS-485 (MODBUS)</communication>		Y D								
6	<use> 2-path/2-channel Single path/energy calculation</use>		A B								
7	<power supply="" voltage=""> 100 to 240VAC 50/60Hz</power>				1						
8	<modification no.=""></modification>					2					
9	<case structure=""> IP67</case>						Ĺ	-			
10	<wire connection="" port=""> Waterproof gland Waterproof gland with union (for plica tube)</wire>								Y A		
11	<dampproofing> None Provided</dampproofing>									Y A	
12	<parameter and="" setting="" tag=""> None Setting provided Setting provided + tag Tag</parameter>	Y A B						3			
13	<mounting method=""> Wall mount Pipe mount</mounting>										B

Pipe diameters from Ø13 to Ø6000mm Easy installation on existing pipe!



Compact type (Type: FSSA)

Fluid temperature: 100°C max. Pipe size: Φ25 to Φ225mm



Extendable rail type (Type: FSSC) Fluid temperature: 120°C max. Pipe size: Φ50 to Φ1200mm



High temperature type (Type: FSSH)

Fluid temperature: 200°C max. Pipe size: Φ50 to Φ400mm



Large diameter type (Type: FSSE) Fluid temperature: 80°C max. Pipe size: Ф200 to Ф6000mm







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