

Specification Sheet

Electromagnetic Water Meter
50 – 200 mm

Model

SU 50 – 200 – KN

1. General

This is a battery built-in type electromagnetic water meter that M. Faraday's Electromagnetic Induction Law is applied. This meter demonstrates its wide measuring range and high durability as there is no mechanical moving part in the flow measurement tube of the meter.

2. Specifications

2-1. Main Materials

- Outer Casing Stainless Steel
- Flow Measurement Tube Stainless Steel (Tube Liner: Epoxy Resin Powder Painting)
- Electrode Stainless Steel
- Register Unit Stainless Steel, Glass
- Electronic Unit Electronic Component, PC Board

2-2. Performance & Function

Size (mm)			50	65	75	100
Permanent Flow-Rate (Q ₃) (m ³ /h)			40	63	100	160
Measurement Flow-Rate Range (Ratio between Q ₃ and Q ₁)			160			
Flow-Rate Range (m ³ /h)	Within ±5% Error		0.25 - less than 0.4	0.39375 - less than 0.63	0.625 - less than 1	1 - less than 1.6
	Within ±2% Error		0.4 - 50	0.63 - 78.75	1 - 125	1.6 – 200
Measurement Starting Flow-Rate (m ³ /h)			0.15	0.23	0.3	0.45
Pressure Drop at Permanent Flow-Rate (Q ₃) (MPa)			0.02 or less			
Maximum Permissible Working Pressure (MPa)			2			
Measurable Fluid	Applicable Working Fluid Temperature (°C)		+0.1 to +30			
	Fluid Conductivity (μ S/cm)		50 or more			
Ambient Temperature (°C)			-10 to +55			
Regis- tration	Integrating Flow	Max. Registration (m ³)	999999.999			
		Smallest Scale Unit (L)	1			
	Others		Instantaneous Flow-Rate (m ³ /h), No-Water Warning, Low-Battery Alarm			
Power Supply (Built in Main Body)			Built-In Lithium Battery			
Meter Weight (kg)			3.5	4	5	6

NOTE: Specifications are subject to change without notice.

Size (mm)		125	150	200	
Permanent Flow-Rate (Q_3) (m^3/h)		250	400	630	
Measurement Flow-Rate Range (Ratio between Q_3 and Q_1)		160			
Flow-Rate Range (m^3/h)	Within $\pm 5\%$ Error	1.5625 - less than 2.5	2.5 - less than 4	3.9375 - less than 6.3	
	Within $\pm 2\%$ Error	2.5 - 312.5	4 - 500	6.3 - 787.5	
Measurement Starting Flow-Rate (m^3/h)		0.6	1	1.5	
Pressure Drop at Permanent Flow-Rate (Q_3) (MPa)		0.02 or less			
Maximum Permissible Working Pressure (MPa)		2		1	
Measurable Fluid	Applicable Working Fluid Temperature ($^{\circ}\text{C}$)	+0.1 to +30			
	Fluid Conductivity ($\mu\text{S}/\text{cm}$)	50 or more			
Ambient Temperature ($^{\circ}\text{C}$)		-10 to +55			
Regis- tration	Integrating Flow	Max. Registration (m^3)	9999999.99		
		Smallest Scale Unit (L)	10		
	Others		Instantaneous Flow-Rate (m^3/h), No-Water Warning, Low-Battery Alarm		
Power Supply (Built in Main Body)		Built-In Lithium Battery			
Meter Weight (kg)		8	10	15	

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