

Specification Sheet						
Electromagnetic Water Meter with Pulse Transmitter 50 – 200 mm			Model	SU 50 – 200 – KM		
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. This meter has the external output corresponding to the remote monitoring / the remote control.						
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						
Meter 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			
Waterproof			IP68			
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 Estimated Battery Life: 10 years at 30°C ambient temperature (including storage time)			
Transmitter			MX39-1			
	External Output		Open Drain Unit Pulse Signal: Black [-], White [+] Length: 10m Pulse On-Time: 5-900ms On-Resistance: 50 Ω or less Maximum Transmission Distance: 200m Maximum Load Current: 20mA Power Voltage: DC2-30V Pulse Unit: 100L/P Built-In Lithium Battery Estimated Battery Life: 10 years at 30°C ambient temperature (including storage time)			
Meter Weight (including 10m cable) (kg)			4	4.5	5.5	6.5

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Meter 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 ±5% Error		1.5625 – less than 2.5	2.5 – less than 4	3.9375 – less than 6.3		
	Within ±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 (°C)		+0.1 to +30				
	Fluid Conductivity (μ S/cm)		50 or more				
Ambient Temperature (°C)			– 10 to +55				
Waterproof			IP68				
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 Estimated Battery Life: 10 years at 30°C ambient temperature (including storage time)				
Transmitter	External Output		MX39-1				
			Open Drain Unit Pulse Signal: Black [-], White [+] Length: 10m Pulse On-Time: 5-900ms On-Resistance: 50 Ω or less Maximum Transmission Distance: 200m Maximum Load Current: 20mA Power Voltage: DC2-30V Pulse Unit: 1m ³ /P Built-In Lithium Battery Estimated Battery Life: 10 years at 30°C ambient temperature (including storage time)				
Meter Weight (including 10m cable) (kg)			8.5	10.5	15.5		

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