

Specification Sheet			
Battery-Powered Electromagnetic Water Meter 40 – 300 mm		Model	SU40-KF, SU50-KF, SU65-KF, SU80-KF, SU100-KF, SU125-KF, SU150-KF, SU200-KF, SU250-KF, SU300-KF
		Aichi Reference No.	SU40-300-KF-N
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			
Flow Performance to ISO 4064, OIML R49/2013			
Meter Size (mm)		40	
Max. Flowrate	Q <sub>4</sub> [± 2%] (m <sup>3</sup> /h)	31.3	
Permanent Flowrate	Q <sub>3</sub> [± 2%] (m <sup>3</sup> /h)	25	
Transitional Flowrate	Q <sub>2</sub> [± 2%] (m <sup>3</sup> /h)	0.16	
Min. Flowrate	Q <sub>1</sub> [± 5%] (m <sup>3</sup> /h)	0.1	
Measuring Range Q <sub>3</sub> /Q <sub>1</sub> (R)		250	
Low Flow Cut (m <sup>3</sup> /h)		0.05	
Pressure Loss at Permanent Flowrate (Q <sub>3</sub> ) (MPa)		0.063 or less	
Maximum Permissible Working Pressure (MPa)		1.0	
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	
Registration	Integrating Flow	Max. Registration (m <sup>3</sup> )	999999.9999
		Smallest Scale Unit (L)	0.1
	Others	Instantaneous Flowrate (m <sup>3</sup> /h) No-Water Warning Low-Battery Alarm	
Power Supply		Built-in Lithium Battery Estimated Battery Life: 10 years at 30°C ambient temperature (including storage time)	
Weight (kg)		Approx. 7	
Piping Connection		Flange Connection Method	
Remarks: Specifications are subject to change without notice.			

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			Aichi Reference No.		SU40-300-KF-N	
Flow Performance to ISO 4064, OIML R49/2013						
Meter Size (mm)			50	65	80	100
Max. Flowrate      Q <sub>4</sub> [±2%]    (m <sup>3</sup> /h)			50	78.8	125	200
Permanent Flowrate      Q <sub>3</sub> [±2%]    (m <sup>3</sup> /h)			40	63	100	160
Transitional Flowrate      Q <sub>2</sub> [±2%]    (m <sup>3</sup> /h)			0.16	0.252	0.4	0.64
Min. Flowrate      Q <sub>1</sub> [±5%]    (m <sup>3</sup> /h)			0.1	0.158	0.25	0.4
Measuring Range Q <sub>3</sub> /Q <sub>1</sub> (R)			400			
Low Flow Cut (m <sup>3</sup> /h)			0.08	0.126	0.2	0.32
Pressure Loss at Permanent Flowrate (Q <sub>3</sub> ) (MPa)			0.063 or less			
Maximum Permissible Working Pressure (MPa)			1.0			
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			
Registration	Integrating Flow	Max. Registration (m <sup>3</sup> )	999999.9999			999999.999
		Smallest Scale Unit (L)	0.1			1
	Others		Instantaneous Flowrate (m <sup>3</sup> /h) No-Water Warning Low-Battery Alarm			
Power Supply			Built-in Lithium Battery Estimated Battery Life: 10 years at 30°C ambient temperature (including storage time)			
Weight (kg)			Approx. 8	Approx. 9	Approx. 11	Approx.14
Piping Connection			Flange Connection Method			

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		Aichi Reference No.	SU40-300-KF-N	
Flow Performance to ISO 4064, OIML R49/2013				
Meter Size (mm)		125	150	200
Max. Flowrate	Q <sub>4</sub> [±2%] (m <sup>3</sup> /h)	313	500	788
Permanent Flowrate	Q <sub>3</sub> [±2%] (m <sup>3</sup> /h)	250	400	630
Transitional Flowrate	Q <sub>2</sub> [±2%] (m <sup>3</sup> /h)	1	1.6	2.52
Min. Flowrate	Q <sub>1</sub> [±5%] (m <sup>3</sup> /h)	0.625	1	1.575
Measuring Range Q <sub>3</sub> /Q <sub>1</sub> (R)		400		
Low Flow Cut (m <sup>3</sup> /h)		0.5	0.8	1.26
Pressure Loss at Permanent Flowrate (Q <sub>3</sub> ) (MPa)		0.063 or less		
Maximum Permissible Working Pressure (MPa)		1.0		
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		
Registration	Integrating Flow	Max. Registration (m <sup>3</sup> )	999999.999	9999999.999
		Smallest Scale Unit (L)	1	
	Others	Instantaneous Flowrate (m <sup>3</sup> /h) No-Water Warning Low-Battery Alarm		
Power Supply		Built-in Lithium Battery Estimated Battery Life: 10 years at 30°C ambient temperature (including storage time)		
Weight (kg)		Approx. 18	Approx. 24	Approx. 32
Piping Connection		Flange Connection Method		

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			Aichi Reference No.	SU40-300-KF-N
Flow Performance to ISO 4064, OIML R49/2013				
Meter Size (mm)			250	300
Max. Flowrate      Q <sub>4</sub> [±2%]    (m <sup>3</sup> /h)			1250	
Permanent Flowrate      Q <sub>3</sub> [±2%]    (m <sup>3</sup> /h)			1000	
Transitional Flowrate      Q <sub>2</sub> [±2%]    (m <sup>3</sup> /h)			4	
Min. Flowrate      Q <sub>1</sub> [±5%]    (m <sup>3</sup> /h)			2.5	
Measuring Range Q <sub>3</sub> /Q <sub>1</sub> (R)			400	
Low Flow Cut (m <sup>3</sup> /h)			2	
Pressure Loss at Permanent Flowrate (Q <sub>3</sub> ) (MPa)			0.063 or less	
Maximum Permissible Working Pressure (MPa)			1.0	
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	
Registration	Integrating Flow	Max. Registration (m <sup>3</sup> )	9999999.99	
		Smallest Scale Unit (L)	10	
	Others		Instantaneous Flowrate (m <sup>3</sup> /h) No-Water Warning Low-Battery Alarm	
Power Supply			Built-in Lithium Battery Estimated Battery Life: 10 years at 30°C ambient temperature (including storage time)	
Weight (kg)			Approx. 54	Approx. 70
Piping Connection			Flange Connection Method	

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