



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																																																														
<p>1. General</p> <p>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.</p> <p>2. Specifications</p> <p>2-1. Main Materials</p> <ul style="list-style-type: none"> • 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 <p>2-2. Performance & Function</p> <table border="1"> <thead> <tr> <th colspan="3">Flow Performance to ISO 4064, OIML R49/2013</th> </tr> </thead> <tbody> <tr> <td>Meter Size (mm)</td> <td></td> <td>40</td> </tr> <tr> <td>Max. Flowrate</td> <td>Q₄ [±2%] (m³/h)</td> <td>31.3</td> </tr> <tr> <td>Permanent Flowrate</td> <td>Q₃ [±2%] (m³/h)</td> <td>25</td> </tr> <tr> <td>Transitional Flowrate</td> <td>Q₂ [±2%] (m³/h)</td> <td>0.16</td> </tr> <tr> <td>Min. Flowrate</td> <td>Q₁ [±5%] (m³/h)</td> <td>0.1</td> </tr> <tr> <td colspan="2">Measuring Range Q₃/Q₁ (R)</td> <td>250</td> </tr> <tr> <td colspan="2">Low Flow Cut (m³/h)</td> <td>0.05</td> </tr> <tr> <td colspan="2">Pressure Loss at Permanent Flowrate (Q₃) (MPa)</td> <td>0.063 or less</td> </tr> <tr> <td colspan="2">Maximum Permissible Working Pressure (MPa)</td> <td>1.0</td> </tr> <tr> <td rowspan="2">Measurable Fluid</td> <td>Applicable Working Fluid Temperature (°C)</td> <td>+0.1 to +30</td> </tr> <tr> <td>Fluid Conductivity (μ S/cm)</td> <td>50 or more</td> </tr> <tr> <td colspan="2">Ambient Temperature (°C)</td> <td>-10 to +55</td> </tr> <tr> <td colspan="2">Waterproof</td> <td>IP68</td> </tr> <tr> <td rowspan="3">Registration</td> <td rowspan="2">Integrating Flow</td> <td>Max. Registration (m³)</td> <td>999999.9999</td> </tr> <tr> <td>Smallest Scale Unit (L)</td> <td>0.1</td> </tr> <tr> <td>Others</td> <td colspan="2">Instantaneous Flowrate (m³/h) No-Water Warning Low-Battery Alarm</td> </tr> <tr> <td colspan="2">Power Supply</td> <td colspan="2">Built-in Lithium Battery Estimated Battery Life: 10 years at 30°C ambient temperature (including storage time)</td> </tr> <tr> <td colspan="2">Weight (kg)</td> <td colspan="2">Approx. 7</td> </tr> <tr> <td colspan="2">Piping Connection</td> <td colspan="2">Flange Connection Method</td> </tr> </tbody> </table> <p>Remarks: Specifications are subject to change without notice.</p>			Flow Performance to ISO 4064, OIML R49/2013			Meter Size (mm)		40	Max. Flowrate	Q ₄ [±2%] (m ³ /h)	31.3	Permanent Flowrate	Q ₃ [±2%] (m ³ /h)	25	Transitional Flowrate	Q ₂ [±2%] (m ³ /h)	0.16	Min. Flowrate	Q ₁ [±5%] (m ³ /h)	0.1	Measuring Range Q ₃ /Q ₁ (R)		250	Low Flow Cut (m ³ /h)		0.05	Pressure Loss at Permanent Flowrate (Q ₃) (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 ³)	999999.9999	Smallest Scale Unit (L)	0.1	Others	Instantaneous Flowrate (m ³ /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	
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04220206 2/4

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	
Flow Performance to ISO 4064, OIML R49/2013					
Meter Size (mm)		50	65	80	100
Max. Flowrate	Q ₄ [±2%] (m ³ /h)	50	78.8	125	200
Permanent Flowrate	Q ₃ [±2%] (m ³ /h)	40	63	100	160
Transitional Flowrate	Q ₂ [±2%] (m ³ /h)	0.16	0.252	0.4	0.64
Min. Flowrate	Q ₁ [±5%] (m ³ /h)	0.1	0.158	0.25	0.4
Measuring Range Q ₃ /Q ₁ (R)		400			
Low Flow Cut (m ³ /h)		0.08	0.126	0.2	0.32
Pressure Loss at Permanent Flowrate (Q ₃) (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 ³)	999999.9999		999999.999
		Smallest Scale Unit (L)	0.1		1
	Others	Instantaneous Flowrate (m ³ /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 ₄ [±2%] (m ³ /h)	313	500 788
Permanent Flowrate	Q ₃ [±2%] (m ³ /h)	250	400 630
Transitional Flowrate	Q ₂ [±2%] (m ³ /h)	1	1.6 2.52
Min. Flowrate	Q ₁ [±5%] (m ³ /h)	0.625	1 1.575
Measuring Range Q ₃ /Q ₁ (R)		400	
Low Flow Cut (m ³ /h)		0.5	0.8 1.26
Pressure Loss at Permanent Flowrate (Q ₃) (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 ³)	999999.999 9999999.999
		Smallest Scale Unit (L)	1
	Others	Instantaneous Flowrate (m ³ /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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