

Specification Sheet																																																																																															
Impulse Electromagnetic Water Meter 50 – 200 mm		Model	SU 50–200–KN																																																																																												
<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"> <li>• Outer Casing ..... Stainless Steel</li> <li>• Flow Measurement Tube ..... Stainless Steel (Tube Liner: Epoxy Resin Powder Painting)</li> <li>• Electrode ..... Stainless Steel</li> <li>• Register Unit ..... Stainless Steel, Glass</li> <li>• Electronic Unit ..... Electronic Component, PC Board</li> </ul> <p>2-2. Performance &amp; Function</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">Size (mm)</th> <th>50</th> <th>65</th> <th>75</th> <th>100</th> </tr> </thead> <tbody> <tr> <td colspan="2">Permanent Flow-Rate (Q<sub>3</sub>) (m<sup>3</sup>/h)</td> <td>40</td> <td>63</td> <td>100</td> <td>160</td> </tr> <tr> <td colspan="2">Measurement Flow-Rate Range (Ratio between Q<sub>3</sub> and Q<sub>1</sub>)</td> <td colspan="4" style="text-align: center;">160</td> </tr> <tr> <td rowspan="2" style="text-align: center;">Flow-Rate Range (m<sup>3</sup>/h)</td> <td style="text-align: center;">Within ±5% Error</td> <td style="text-align: center;">0.25 - less than 0.4</td> <td style="text-align: center;">0.39375 - less than 0.63</td> <td style="text-align: center;">0.625 - less than 1</td> <td style="text-align: center;">1 - less than 1.6</td> </tr> <tr> <td style="text-align: center;">Within ±2% Error</td> <td style="text-align: center;">0.4 - 50</td> <td style="text-align: center;">0.63 - 78.75</td> <td style="text-align: center;">1 - 125</td> <td style="text-align: center;">1.6 – 200</td> </tr> <tr> <td colspan="2">Measurement Starting Flow-Rate (m<sup>3</sup>/h)</td> <td style="text-align: center;">0.15</td> <td style="text-align: center;">0.23</td> <td style="text-align: center;">0.3</td> <td style="text-align: center;">0.45</td> </tr> <tr> <td colspan="2">Pressure Drop at Permanent Flow-Rate (Q<sub>3</sub>) (MPa)</td> <td colspan="4" style="text-align: center;">0.02 or less</td> </tr> <tr> <td colspan="2">Maximum Permissible Working Pressure (MPa)</td> <td colspan="4" style="text-align: center;">2</td> </tr> <tr> <td rowspan="2" style="text-align: center;">Measurable Fluid</td> <td style="text-align: center;">Applicable Working Fluid Temperature (°C)</td> <td colspan="4" style="text-align: center;">+0.1 to +30</td> </tr> <tr> <td style="text-align: center;">Fluid Conductivity (μ S/cm)</td> <td colspan="4" style="text-align: center;">50 or more</td> </tr> <tr> <td colspan="2">Ambient Temperature (°C)</td> <td colspan="4" style="text-align: center;">-10 to +55</td> </tr> <tr> <td rowspan="3" style="text-align: center;">Regis- tration</td> <td rowspan="2" style="text-align: center;">Integrating Flow</td> <td style="text-align: center;">Max. Registration (m<sup>3</sup>)</td> <td colspan="3" style="text-align: center;">999999.999</td> </tr> <tr> <td style="text-align: center;">Smallest Scale Unit (L)</td> <td colspan="3" style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">Others</td> <td colspan="4" style="text-align: center;">Instantaneous Flow-Rate (m<sup>3</sup>/h), No-Water Warning, Low-Battery Alarm</td> </tr> <tr> <td colspan="2">Power Supply (Built in Main Body)</td> <td colspan="4" style="text-align: center;">Built-In Lithium Battery</td> </tr> <tr> <td colspan="2">Meter Weight (kg)</td> <td style="text-align: center;">3.5</td> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> <td style="text-align: center;">6</td> </tr> </tbody> </table> <p>NOTE: Specifications are subject to change without notice.</p>					Size (mm)		50	65	75	100	Permanent Flow-Rate (Q <sub>3</sub> ) (m <sup>3</sup> /h)		40	63	100	160	Measurement Flow-Rate Range (Ratio between Q <sub>3</sub> and Q <sub>1</sub> )		160				Flow-Rate Range (m <sup>3</sup> /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 <sup>3</sup> /h)		0.15	0.23	0.3	0.45	Pressure Drop at Permanent Flow-Rate (Q <sub>3</sub> ) (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 <sup>3</sup> )	999999.999			Smallest Scale Unit (L)	1			Others	Instantaneous Flow-Rate (m <sup>3</sup> /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
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Size (mm)		125	150	200	
Permanent Flow-Rate (Q <sub>3</sub> ) (m <sup>3</sup> /h)		250	400	630	
Measurement Flow-Rate Range (Ratio between Q <sub>3</sub> and Q <sub>1</sub> )		160			
Flow-Rate Range (m <sup>3</sup> /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 <sup>3</sup> /h)		0.6	1	1.5	
Pressure Drop at Permanent Flow-Rate (Q <sub>3</sub> ) (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			
Regis- tration	Integrating Flow	Max. Registration (m <sup>3</sup> )	9999999.99		
		Smallest Scale Unit (L)	10		
	Others	Instantaneous Flow-Rate (m <sup>3</sup> /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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