Specification Sheet								
Electromagnetic Water Meter with Electronic Statement Transmitter 50 – 200 mm	Model	SU 50-200-KC						

## 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

Size (mm)				50	65	75	100		
Permane	nanent 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		
Measure (m³/h)	ment Start	ing	g Flow-Rate	7-Rate 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)			emperature (°C)	+0.1 to +30					
	Fluid Conductivity (µS/cm)			50 or more					
Ambient	Ambient Temperature (°C)			—10 to +55					
	Integratin	ng Max. Registration (m <sup>3</sup> )		999999.999					
Regis-	Flow		Smallest Scale Unit (L)	1					
tration	Others	•		Instantaneous Flow-Rate (m³/h), No-Water					
Others			Warning, Low-Battery Alarm						
Power S	upply (Bui	lt i	n Main Body)	Body) Built-In Lithium Battery					
Transmi	Transmitter			MX35-2					
Remote Display			SR-4DP3AW (Exclusive Remote Display) Maximum Transmission Distance: 50m Electronic Statement Signal: 2 Wires (Black [-], White [+]) For more details, please refer to the specification sheet of the remote display.						
Meter W	Meter Weight (including 10m cable) (kg)			4	4.5	5.5	6.5		

NOTE: Specifications are subject to change without notice.

Size (mm)	Sign (m)	m)			125	150	200			
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$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Permane	ent Flow-K	ate	$(Q_3)$ $(m^2/n)$	250	400	630			
$ \begin{array}{ c c c c } \hline (m^3/h) & less than 2.5 & less than 4 & less than 6.3 \\ \hline (m^3/h) & less than 2.5 & less than 4 & less than 6.3 \\ \hline (m^3/h) & 2.5 - 312.5 & 4 - 500 & 6.3 - 787.5 \\ \hline (m^3/h) & 0.6 & 1 & 1.5 \\ \hline (m^3/h) & 0.02 \text{ or less} \\ \hline (m^3/$					160					
$ \begin{array}{ c c c c c } \hline & Within \pm 2\%  Error & 2.5 - 312.5 & 4 - 500 & 6.3 - 787.5 \\ \hline Measurement Starting Flow-Rate & 0.6 & 1 & 1.5 \\ \hline Measurement Starting Flow-Rate & 0.6 & 1 & 1.5 \\ \hline Measurable Pressure Drop at Permanent Flow-Rate (Q_3) (MPa) & 0.02  or  less \\ \hline Maximum Permissible Working Pressure (MPa) & 2 & 1 \\ \hline Measurable Fluid & Applicable Working Fluid Temperature (°C) & +0.1  to +30 \\ \hline Measurable Fluid & Temperature (°C) & 50  or  more \\ \hline Ambient Temperature (°C) & -10  to +55 \\ \hline Max. Registration (m³) & 99999999.99 \\ \hline Registration & Max. Registration (m³) & 99999999.99 \\ \hline Smallest Scale Unit (L) & 10 \\ \hline Transmitter & Main Body) & Built-In Lithium Battery \\ \hline Transmitter & MX35-2 \\ \hline Remote Display & SR-4DP3BW (Exclusive Remote Display) \\ \hline Maximum Transmission Distance: 50m \\ Electronic Statement Signal: 2 Wires (Black [-], White [+]) \\ For more details, please refer to the specification sheet of the remote display. \\ \hline \end{array}$	Flow-Rate Range W			Within ±5% Error						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(m³/h	ι)					f · ·			
$ \begin{array}{ c c c c } \hline (m^3/h) & 0.00 & 1 & 1.3 \\ \hline Pressure Drop at Permanent Flow-Rate (Q_3) (MPa) & 0.02 \text{ or less} \\ \hline Maximum Permissible Working Pressure (MPa) & 2 & 1 \\ \hline Measurable Fluid & & & & & & & & & & & & & & & & & & &$					2.5 - 312.5	4 - 500	6.3 - 787.5			
Flow-Rate $(Q_3)$ (MPa)  Maximum Permissible Working Pressure $(MPa)$ Applicable Working Fluid Temperature $(^{\circ}C)$ Fluid Conductivity $(\mu \ S/cm)$ Ambient Temperature $(^{\circ}C)$ Flow  Ambient Temperature $(^{\circ}C)$ Flow  Integrating Registration  Others  Max. Registration $(m^3)$ Smallest Scale Unit (L)  Others  Instantaneous Flow-Rate $(m^3/h)$ , No-Water Warning, Low-Battery Alarm  Power Supply (Built in Main Body)  Built-In Lithium Battery  Transmitter  MX35-2  SR-4DP3BW (Exclusive Remote Display) Maximum Transmission Distance: 50m Electronic Statement Signal: 2 Wires (Black [-], White [+]) For more details, please refer to the specification sheet of the remote display.	Measure (m³/h)	Measurement Starting Flow-Rate (m <sup>3</sup> /h)				1	1.5			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				0.02 or less						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Maximum Permissible Working			2 1			1			
$ \begin{array}{ c c c c } \hline & Fluid Conductivity \\ \hline (\mu \text{ S/cm}) & 50 \text{ or more} \\ \hline \\ Ambient Temperature (^{\circ}\text{C}) & -10 \text{ to } +55 \\ \hline \\ & & & & & & & & & & & & & \\ \hline \\ Registration & & & & & & & & & \\ \hline \\ Flow & & & & & & & & & & \\ \hline \\ Registration & & & & & & & & \\ \hline \\ & & & & & & & & &$	Maggare	ble Fluid	T	emperature (°C)	+0.1 to +30					
Registration    Registration   Flow   Smallest Scale Unit (L)   10	Fluid Conductivity			50 or more						
Registration  The stration Flow Smallest Scale Unit (L)  Others Instantaneous Flow-Rate (m³/h), No-Water Warning, Low-Battery Alarm  Power Supply (Built in Main Body)  Built-In Lithium Battery  Transmitter MX35-2  SR-4DP3BW (Exclusive Remote Display)  Maximum Transmission Distance: 50m  Electronic Statement Signal:  2 Wires (Black [-], White [+])  For more details, please refer to the specification sheet of the remote display.	Ambien	t Temperat	ure	(°C)	-10 to +55					
tration  Others  Instantaneous Flow-Rate (m³/h), No-Water Warning, Low-Battery Alarm  Power Supply (Built in Main Body)  Built-In Lithium Battery  Transmitter  MX35-2  SR-4DP3BW (Exclusive Remote Display)  Maximum Transmission Distance: 50m  Electronic Statement Signal:  2 Wires (Black [-], White [+])  For more details, please refer to the specification sheet of the remote display.			g Max. Registration (m <sup>3</sup> )		9999999.99					
Others  Others  Others  Warning, Low-Battery Alarm  Built-In Lithium Battery  Transmitter  MX35-2  SR-4DP3BW (Exclusive Remote Display) Maximum Transmission Distance: 50m Electronic Statement Signal: 2 Wires (Black [-], White [+]) For more details, please refer to the specification sheet of the remote display.		Flow		Smallest Scale Unit (L)	10					
Power Supply (Built in Main Body)  Transmitter  Built-In Lithium Battery  MX35-2  SR-4DP3BW (Exclusive Remote Display)  Maximum Transmission Distance: 50m  Electronic Statement Signal:  2 Wires (Black [-], White [+])  For more details, please refer to the specification sheet of the remote display.	tration			Instantaneous Flow-Rate (m³/h), No-Water						
Transmitter  SR-4DP3BW (Exclusive Remote Display)  Maximum Transmission Distance: 50m  Electronic Statement Signal:  2 Wires (Black [-], White [+])  For more details, please refer to the specification sheet of the remote display.		Otners	ithers			H i i i i i i i i i i i i i i i i i i i				
Remote Display  Remote Display  Remote Display  Remote Display  Remote Display  Remote Display  SR-4DP3BW (Exclusive Remote Display)  Maximum Transmission Distance: 50m  Electronic Statement Signal:  2 Wires (Black [-], White [+])  For more details, please refer to the specification sheet of the remote display.	Power S	Power Supply (Built in Main Body)			Built-In Lithium Battery					
Maximum Transmission Distance: 50m  Electronic Statement Signal:  2 Wires (Black [-], White [+])  For more details, please refer to the specification sheet of the remote display.	Transmi	Transmitter			MX35-2					
Maximum Transmission Distance: 50m  Electronic Statement Signal:  2 Wires (Black [-], White [+])  For more details, please refer to the specification sheet of the remote display.	Remote Display			SR-4DP3BW (Exclusive Remote Display)						
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Meter Weight (including 10m cable) (kg) 8.5 10.5 15.5					<b>_</b>	1	1	oiay.		
	Meter Weight (including 10m cable) (kg)			8.5	10.5	15.5				

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