Product Specifications

	Model	AS-WE-40	AS-WE-50	AS-WE-80	AS-WE-100	AS-WE-150	AS-WE-200			
Nominal diameter		40A	50A	80A	100A	150A	200A			
Power supply			Built-in lithium battery							
Working pressure			0.05MPa (Gauge pressure)							
Measurable fluid		Natural gas, air								
Pressure sensor		Without pressure compensation : AS-WE-□-0B/3 With pressure compensation : AS-WE-□-200BG/3 (gauge pressure sensor) : AS-WE-□-200BA/3 (absolute pressure sensor)								
Flow rate measureme precision *	te±5%RS (m³/h)	±1.6 ~ 16	±3~30	±6~60	±10~100	±24 ~ 240	±40 ~ 400			
	±2%RS (m ³ /h)	±16~80	±30~150	±60 ~ 300	±100~500	±240 ~ 1200	±400 ~ 2000			
Low flow	cut off Flow rate (m/s)	0.05 m/s or less								
(start flow ra	v rate) *2 Actual flow rate (m ³ /h)	±0.2	±0.4	±0.8	±1.5	±3.2	±5.7			
Fluid temperature and humidity		-20 ~ +60°C, 90% RH or less								
Pressure loss		Zero (equivalent to straight tube part)								
Acc	umulated flow volume	e Accumulated flow volume: 00000000.0 (9 digits/m ³ or Nm ³) Accumulated flow volume: 0000000000 (10 digits/m ³ or Nm								
dicator	Instantaneous flow rate *3	(1) Maximum indication value: ±19999Nm ³ /h (converted flow rate) (2) Maximum indication value: ±19999Nm ³ /h (actual flow rate) (Two decimal places for a value less than 200, one decimal place for a value from 200 to less than 2000, integer								
Ĕ 1	Temperature *3	00.0℃ (3 digits)								
	Pressure *3	0000.0kPa (5 digits)								
but	Contact output		Open drain outp	ut: Unit pulse (forward curre	nt), pulse unit: 100,1000,100	000 (L/P or NL/P)				
3 Electro	nic statement signal communication	RS485 MODBUS/RTU								
Connection method		ISO7005-1 (GB/T9119-2000 PN1.6MPa Flange) equivalent *4								
Inst	allation position	Horizontal, vertical								
Installation		Indoor, outdoor (protection level IP 64 or equivalent)								
Case material		Stainless alloy								
Gas contact part material		Stainless alloy, engineering plastic								
	Weight	7.6kg	9.6kg	13.3kg	13.2kg	20.4kg	35.4kg			

Unit : mm

rsion type, the low flow cut off value is the normal conversion flow rate corresponding to 0.05 m/s.

*1. The flow rate measurement range is ±5% RS: Inclusive before "~" and not inclusive after "~" and ±2% RS: Inclusive for both before and after "~".
*2. When the flow rate is less than 0.25% of the maximum flow rate, the instantaneous flow rate is indicated as 0 m/h. For the normal conversion ty
*3. Automatically switched in every 4 seconds.
*4. This flowmeter guarantees the flow measurement accuracy with the pipes listed in the right table.
(If you use pipes with the different pipe sandard and size not listed in the table, the flowmeter may not satisfy the flow measurement accuracy. Consult us in advance if it is considered to use different pipes out of this range.)

Piping standard	EN10208						
Nominal diameter (mm)	40	50	80	100	150	200	
Outer diameter (mm)	48.3	57	88.9	108	159	219.1	
Thickness (mm)	4	3.5	4.5	4	4.5	10	

External dimensions

Model	Nom diam
AS-WE-40	40
AS-WE-50	50
AS-WE-80	80
AS-WE-100	10
AS-WE-150	15
AS-WE-200	20
ISO7005-1 (GB/T9119	-2000 PM

Model	Nominal diameter	L	н
AS-WE-40	40A	200	233
AS-WE-50	50A	220	247
AS-WE-80	80A	250	279
AS-WE-100	100A	250	313
AS-WE-150	150A	300	370
AS-WE-200	200A	350	428

Caution regarding to methane

For each nominal diameter, there are conditions of methane concentrations (%) in natural gas (NG) with which the meter cannot be used, as described in the below table. (Do not use if the methane concentration does not satisfy the usable conditions described below. Also, do not use if there is a possibility that methane concentration may change greatly after installation so that the usable conditions described below will not be satisfied.)

Methane	Nominal diameter						
Concentration (%)	40A	50A	80A	100A	150A	200A	
Over 99%	Measurable	Measurable	Measurable	Not measurable	Not measurable	Not measurable	
Over 98% to 99%	Measurable	Measurable	Measurable	Measurable	Not measurable	Not measurable	
Over 96% to 98%	Measurable	Measurable	Measurable	Measurable	Not measurable	Not measurable	
Over 94% to 96%	Measurable	Measurable	Measurable	Measurable	Measurable	Not measurable	
94% or less	Measurable	Measurable	Measurable	Measurable	Measurable	Measurable	

Technical specifications in this catalog are up-to-date as of July 2018.



🙈 🖊 ichi tokei denki co., Itd.

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201812-AS-W-000-a









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Vide rangeability of 1:400 Even small flow is measurable o it enables pipe leakage letection

Zero pressure loss and zero energy loss achieved by no obstacle inside the measurement tube. No change of accuracy in long









for Fuel Gas **Ultrasonic Flowmeter AS-WE** Series

Measures gas consumption at high sensitivity and high precision

Safe and secure by gas leakage detection

AS-WE-100~200

asy-to-read and large-sized gital display, which is rotata 90 degrees on the spot

hanced logging function even data log items including nestamp, temperature, pressu instantaneous flow rate, accumulated flow rate, etc. can be stored for up to 2200 sets. Data acquisition interval car be set to 5 minutes to 24 hours.





emperature and pressure ensors are installed. Norma

Runs with a built-in lithium battery and no necessity of electric construction.





System configuration example



Installation method

Make sure to align the central axis of the meter with that of the piping. In order to minimize the deviation of the central axes of the flow meter and piping, please use the centering collars provided as an accessory. Not using the centering collars leads to be out of the warranty accuracy. Insert the centering collars into the holes of flange and gasket at the upper stream side diagonally as shown in the figure below.



Connection between power supply and indicator



※1. The main body and GND are electrically common. Use an isolated power supply and indicator as required.

AS series solved these problems.



Piping condition

