Product Specifications

	Model	AS	S-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							
W	Working pressure		0.05MPa (Gauge pressure)							
M	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 ra		i/h) ±	1.6 ~ 16	±3 ~ 30	±6~60	±10~100	±24 ~ 240	±40 ~ 400		
precision		/h) ±	16~80	±30~150	±60 ~ 300	±100~500	±240 ~ 1200	±400 ~ 2000		
Low floy	cut off Flow rate	m/s)	0.05 m/s or less							
(start flow	v rate) *2 Actual flow rat	(m ³ /h)	±0.2	±0.4	±0.8	±1.5	±3.2	±5.7		
Fluid ter	Fluid temperature and humidity		-20 ~ +60°C, 90% RH or less							
	Pressure loss		Zero (equivalent to straight tube part)							
Acc	umulated flow volu	me	Accumulated flow volume: 000000000 (9 digits/m ³ or Nm ³) Accumulated flow volume: 0000000000 (10 digits/m ³ or Nm ³)							
Indicator	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 only for a value of 2000 or more)							
n .	Temperature *		00.0℃ (3 digits)							
	Pressure *3		0000.0kPa (5 digits)							
Unt brit	Contact output		Open drain output: Unit pulse (forward current), pulse unit: 100,1000,10000 (L/P or NL/P)							
ð Electro	onic statement signal commu	cation	RS485 MODBUS/RTU							
Con	Connection method		ISO7005-1 (GB/T9119-2000 PN1.6MPa Flange) equivalent *4							
Inst	Installation position		Horizontal, vertical							
	Installation		Indoor, outdoor (protection level IP 64 or equivalent)							
(Case material		Stainless alloy							
Gas o	ontact part mate	ial	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	Nomir diame
AS-WE-40	40A
AS-WE-50	50A
AS-WE-80	80A
AS-WE-100	100/
AS-WE-150	150/
AS-WE-200	200/
ISO7005-1 (GB/T9119	-2000 PN1

40A 50A 80A	200 220 250	233 247 279			
80A	250	279			
100A	250	313			
150A	300	370			
200A	350	428			
ISO7005-1 (GB/T9119-2000 PN1.6MPa Flange) equivalent					

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	

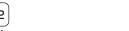
Technical specifications in this catalog are up-to-date as of July 2018.



🙈 🖊 ichi tokei denki co., Itd.

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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

2200 data logs \mathbf{T}

time use and free from maintenance.





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.

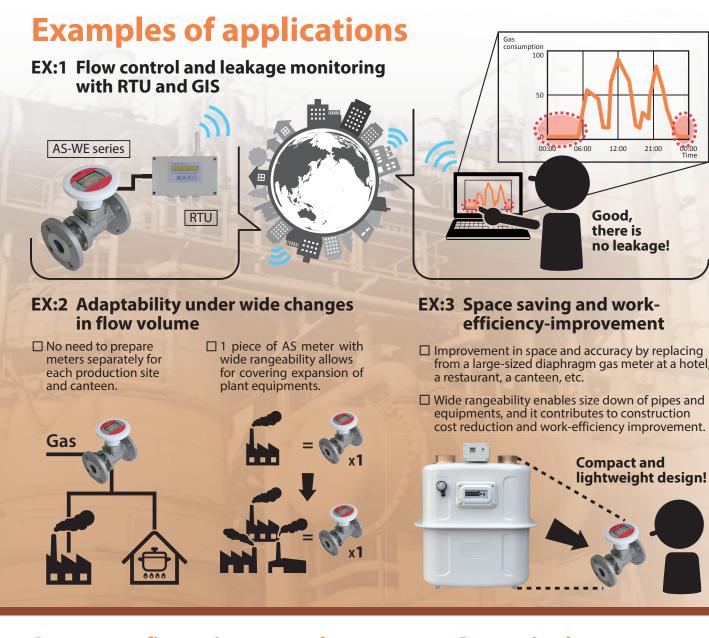




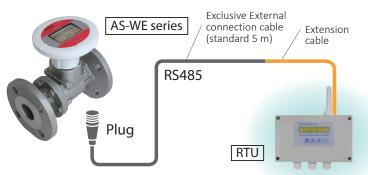
emperature and pressure ensors are installed. Norma

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





System configuration example

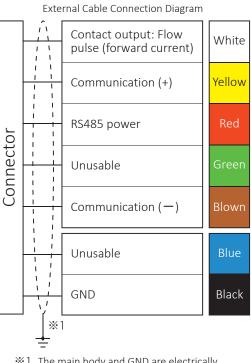


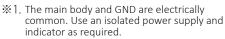
Installation method

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.

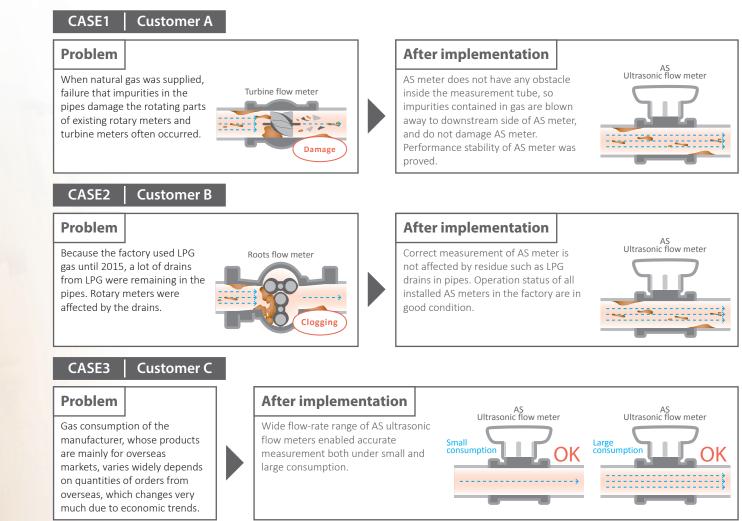


Connection between power supply and indicator





AS series solved these problems.



Piping condition

