

## Commercial Ultrasonic Gas Meter

Model: UG-series

# User Manual

### Viewshine Ltd.

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### Application and Environment

1. This product is suitable for measuring natural gas, air and other gas sources with less impurities.
2. Storage under cool, dry and frost-free environment. If installed outside, avoid direct solar radiation and rain.
3. Environment conditions:

Working environment temperature:  $-10^{\circ}\text{C}\sim+40^{\circ}\text{C}$

Relative Humidity:  $\leq 95\%$

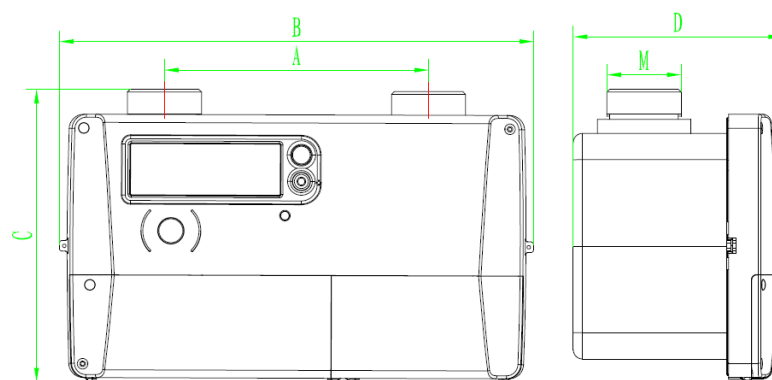
Atmospheric Pressure:  $86\text{kPa}\sim 106\text{kPa}$

### Technical Parameters

Model	Unit	UG-WLW-6	UG-WLW-10	UG-WLW-16	UG-WLW-25
Q <sub>max</sub>	m <sup>3</sup> /h	q <sub>max</sub> =10m <sup>3</sup> /h	q <sub>max</sub> =16m <sup>3</sup> /h	q <sub>max</sub> =25m <sup>3</sup> /h	q <sub>max</sub> =40m <sup>3</sup> /h
Q <sub>min</sub>	m <sup>3</sup> /h	q <sub>min</sub> =0.06m <sup>3</sup> /h	q <sub>min</sub> =0.1m <sup>3</sup> /h	q <sub>min</sub> =0.16m <sup>3</sup> /h	q <sub>min</sub> =0.25m <sup>3</sup> /h
Working Pressure	kPa	P $\leq$ 10kPa			
Pressure Loss P <sub>max</sub>	Pa	$\leq 250$	$\leq 375$		
Accuracy class		1.5 class			
MPE	q <sub>min</sub> ≤q < q <sub>t</sub>	%			
	q <sub>t</sub> ≤q≤q <sub>max</sub>	%			
Battery	V	Communication battery: 7.2V Li-battery Measuring battery: 3.6V Li-battery			

Protection Level		IP66
Explosion-Proof		Exib II BT3 GB

### Dimension



	A	B	C	D	M
G6/G10	150	269.3	166	119	G1 1/4"
G16	180	322	196	136	G1 1/2"
G25	180	322	196	136	G2"

### Main Parts

Basic meter, Valve, Control unit, Li-battery

### Performance and Functions

1. High Measuring Accuracy
2. Internal valve - support remote valve control
3. Data storage
4. Real-time alarm





### Cautions

1. Close the air-inlet main valve when no gas using or maintenance for a long time;
2. Warning: Potential electrostatic charge hazard. Avoid Ignition hazard caused by electrostatic charge when the electrical equipment under normal use, maintenance and cleaning. Do not touch and wipe it in explosive environment. If must, wipe the shell with wrung-out wet cloth in well ventilated environment of no gas leakage. Do not wipe the shell with dry cloth!
3. Forbid replacing components or structures to affect the explosion-proof performance;
4. Empty air in pipe and meter completely before use to avoid explosion;
5. Do not exceed the maximum flow rate and working pressure of the gas meter when using;
6. When air leakage is found in use, close the gas supply valve immediately, open doors and windows for ventilation, and inform the relevant departments for maintenance;
7. No open fire leak detection, no unauthorized removal of gas meter;
8. Gas meter lines are strictly prohibited to be damaged;
9. In case of gas failure, please contact the gas company in time for inspection and maintenance.

### Common failure diagnosis and the elimination method

No	Icon	Implication
1	No “检表” icon	Under working
2	Diaplays “检表” icon	Under calibration
3	开	The meter take on
4	关	The meter take off

6	累计气量	the total gas volume the user has used so far
7	→	Reverse metering
8	Err-0	Pressure sensor damaged
9	Err-1	Temperature sensor damaged
10	Err-7	Microflow leakage alarm
11	Err-8	Oversize flow for more than 30s, (namely Q > 1.2Q <sub>max</sub> )
12	Err-93	Measuring abnormal
13		Under voltage
14		Low voltage

### Specification and Warranty

1 gas meter (flow meter);

1 copy of instruction manual;

The warranty period is 12 months with "three guarantees".

### Warning:

**The user disassembles the gas meter by himself or changes the internal component structure will destroy the explosion proof performance. Besides the measurement error, there is also a risk of gas explosion!**

**If gas meter in leakage, close the gas meter valve immediately, and then open doors and Windows for ventilation. Notify the gas company to repair by professional technical personnel.**