



OGM electronic flowmeter

The product control panel adopts modular design, with complete functions, simple structure, easy operation, etc. it can be widely used in petroleum, chemical, pharmaceutical, transportation, food industry and commercial. The screen is a digital LCD, the screen is divided into three rows.

1. Technical parameters

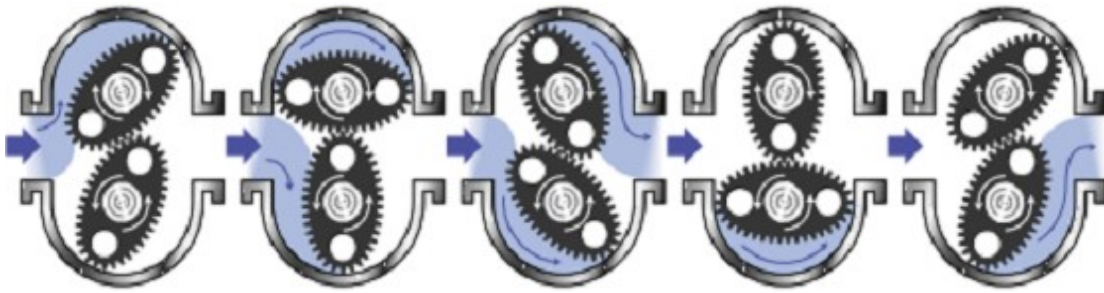
Model	OGM-25	OGM-40	OGM-50
Nominal diameter	1"	1.5"	2"
Minimum flow L/min	12	25	30
Maximum flow L/min	120	250	300
Measurement accuracy	±0.5%	±0.5%	±0.5%
Repeatability	±0.3%	±0.3%	±0.3%
Largest viscosity	1000CPS	1000CPS	1000CPS
Maximum working pressure	3.4MPa	1.8MPa	1.8MPa
Single counter	0.00-9999.9	0.00-9999.9	0.00-9999.9
Total counter	0.00-999999.9	0.00-999999.9	0.00-999999.9
Unite price	0.00-99.99	0.00-99.99	0.00-99.99

2. Key operation instructions

- ◆ CLEAR (Left button) : Clear the single measurement
- ◆ START (Middle button) : For switching on, unit price and flow rate, parameter setting
- ◆ TOTAL (Right button): For checking the total ,clear the total or clear the amount of single measurement

3. Operational principle

The measuring of the elliptical gear flowmeter is mainly composed of two meshing gears, the shell and the electronic part.



The notes are as follows

- ❖ Flow meter installed in the oil pump outlet, if installed in the inlet, the filter pressure will be damaged this will cause the negative pressure of the pump will be increases, make the measurement is not accurate; The pump inlet and outlet also need to be completely sealed, otherwise it will make the flow meter is not accurate.
- ❖ In the front of the flow meter should be installed in the filter, not more than 0.2MM of the particles passed, in order to prevent the flow of the flow meter is stuck in the face of the particle surface.
- ❖ Flowmeter should be equipped with one-way valve and the pipe line liquid flows in only one, to prevent reverse gear meter, or idling inaccurate measurement of flowmeter.
- ❖ Flow meter should be installed correctly, the meter display screen should be 90 degrees upward or sideways installation, not installed.
- ❖ Flow meter installation direction should be the same as the direction of the arrow on the housing of the liquid direction and the direction of the liquid.
- ❖ The pressure loss of flow meter is proportional to liquid flow rate, the liquid viscosity increases and the pressure loss increases.

4. Operating instructions

- **Single data reset:** under the measurement interface and no pulse sender, short press the CLEAR key to clear the single measurement data;
- **Switch flow rate and unit price:** short press START at the metering interface to switch unit price (xxx) and flow (xx.x);
- **View the total accumulation:** with the metering interface and no pulse input, press TOTAL button is ok
- **Clear the current measurement amount:** in the measurement interface without pulse sender, press TOTAL short Key twice, when the LCD flashes the current measurement amount, press CLEAR to clear the current measurement amount and return to the measurement interface or after waiting 20 seconds;
- **Coefficient setting:** under the metering interface and no pulse input, long press START key (8 seconds) into the coefficient setting interface. The LCD screen displays 01450 and individual bits flash; short press CLEAR and TOTAL keys to modify the value of the flashing bit, short press CLEAR key to the left, more than 5 seconds to automatically save the setting coefficient and return to the measurement interface. The value and oil

quantity can view "Table 1";

- **Unit setting:** in the coefficient setting interface, short press CLEAR key for 5 times to set the backward unit. At this time, the UNT letter is displayed on the LCD screen, short press CLEAR key and TOTAL key to modify the measurement unit, operate more than 5 seconds to automatically save the setting coefficient and return to the measurement interface;
- **Unit price setting:** In the coefficient setting interface, short press the CLEAR key for 6 times and enter the unit price setting: When the LCD screen displays the current unit price (default 10.00), and individual bits flash, and press CLEAR and TOTAL to modify the value of flashing bits, and press CLEAR to move to the left, more than 5 seconds to automatically save the setting coefficient and return to the measurement interface.
- **Clear the total data:** under the metering interface and no pulse input, long press the TOTAL key (8 seconds) to display the full LCD screen. At this time, the total tired data has been cleared, and release the button to return to the metering interface

Table1;

Actual oil 100L	Coefficient	Show the measurement
Coefficient adjustment	1000	100.00L
	1010	101.00L
	1100	110.00L
	2000	200.00L
	0980	98.00L
	0960	96.00L

5.Common failure and troubleshooting;

Phenomenon	Eason	Exclusion method
Gear to turn	1.When the installation of impurities into the flow, the flow meter inside gear	After the cleaning is removed, the gear is marked by Hao Anfang.
	2.The liquid is not clear, the filter is filled with impurities	Cleaning filter, remove impurities
	3.Too small to be tested.	Pressure
	4.Turn the wheel stuck	
	5.Flow over a specified value	
	6.The direction of the flow of the liquid is opposite to the direction of the shell.	
Measurement error increases	7.Flow is too small, below the specified value	Increase flow
	8.Bypass leakage	Check the bypass to prevent leakage
	9.The use of a long period of time, the elliptical gears, etc.	With gear change
	10.Liquid containing gas, liquid viscosity and the viscosity difference between the test liquid viscosity	Adjustment coefficient
	11.Inlet and pump suction port connection is not sealed	