



OGM

Digital Fuel Diesel Gear Flow Meter

The product control panel is designed with modular design, with complete functions, simple structure, convenient operation and so on. Can be widely used in petroleum, chemical, pharmaceutical, transportation, food industry and commerce. The screen is a digital liquid crystal display, the screen is divided into three lines: the top line is regarded as the current measurement data, the next line of the cumulative data.

1. Technical parameters

Model	OGM-25	OGM-40	OGM-50
Metric Diameter	1"	1.5"	2"
Min Flow L/min	12	25	30
Max Flow L/min	120	250	300
Accuracy	±0. 5%	±0. 5%	±0. 5%
Repeatability	±0. 3%	±0. 3%	±0. 3%
Max viscosity	1000CPS	1000CPS	1000CPS
Max working pressure	3.4MPa	1.8MPa	1.8MPa
Single Count	0.00-9999.9	0.00-9999.9	0.00-9999.9
Total Count	0.00-999999.9	0.00-999999.9	0.00-999999.9

FOB Prices

OGM-25 73USD/pc

OGM-40 102USD/pc

OGM-50 132USD/pc

Gross Weight 2.2KG, 6.5KG, 7.3KG

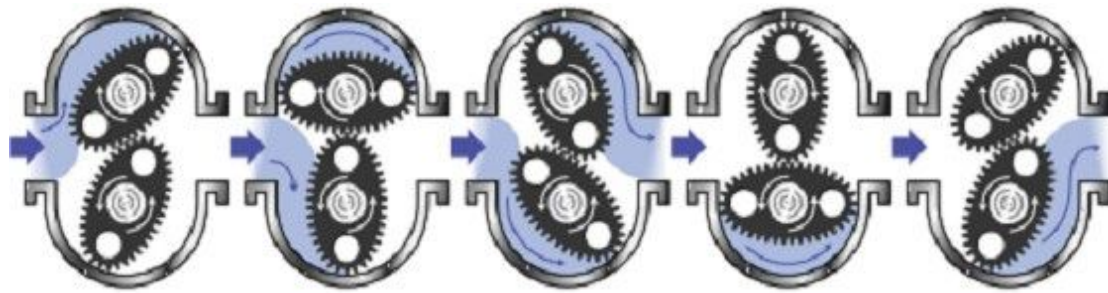
2. Key operation instructions

Because the flow meter with the function of preventing errors, so when there is a pulse signal can not be operated, after giving the pulse signal, 6 seconds before the return to zero. Adjustment factor or total display, etc.!

- 1.. On the left CLEAN key, starting and cleared, in the middle of the START key, set up, the right for the TOTAL key, the total amount of display and class total display
- 2, start: press ON/CLEAN key to boot, or the sensor has a measurement pulse, can be switched on. The machine automatically shut down 4-5 minutes without any operation..
- 3 view total: in the normal display state press TOTAL key, the screen display TOTAL, the following row of figures is the total cumulative. 10 seconds after the automatic return to normal display.
- 4 when the data is clear, in the normal state of the display, press ON/CLEAN to clear when the data.
- 5 clear class total: in the normal display state press TOTAL button, when the screen display TOTAL, the following row shows the figure is the total cumulative, press TOTAL key again, showing a total flash, then press ON/CLEAN button to clear the value, return to normal after 3 seconds.
6. Adjustment coefficient in the normal state, not counting pulse, waiting for 5 seconds, press the start button to keep 5 seconds, entering coefficient adjustment mode, this row display has some coefficient, a flashing. Press ON/CLEAN button to 'Add', press TOTAL key to 'minus', according to the START shift, after modification, long press START wait for 1 seconds, save the revised value, and return to normal display. If you do not operate, after 30 seconds will automatically return to normal display. The modification is based on the actual measured value and display value, the actual value divided by the display value, and then multiplied by the existing coefficient is to modify the value of the. Simple generalization: when the system is large, the relative oil will be reduced. System to minor. Oil will increase.

3. Working Principle

The measuring of the Digital oval gear flowmeter is mainly composed of two mutual meshing gears, the shell and the electronic parts, as shown in Figure:



Working principle of digital oval gear flowmeter

1. flow meter installed in the oil pump outlet, if installed in the inlet, the filter pressure is damaged, so that the negative pressure of the pump increases, so that the flow meter is not accurate, the pump inlet and outlet also need to be completely sealed, otherwise it will make the flow meter is not accurate.
2. in front of the flow meter should be installed in the filter, do not make more than 0.2MM particles through, to prevent the flow of particles from the particle surface stuck or blocked. Filters should be cleaned regularly.
3. In front of flowmeter should be equipped with one-way valve and the pipeline liquid flows in only one, to prevent reverse gear meter, or idling inaccurate measurement of flowmeter.
4. meter should be installed correctly, the meter display screen should be 90 degrees upward or sideways installation, not installed.
5. flow meter installation direction should be the same as the direction of the arrow on the shell body, the same direction of the liquid, the installation position should pay attention to facilitate reading.
6. flow meter pressure loss is proportional to the liquid flow, the liquid viscosity increases, and the pressure loss increases.

4. Calibration error coefficient

In standby mode or current charging status, press START key for 5 seconds to enter the state of the error coefficient. In the middle of a row in front of the E- and the last bit of the digital flash display, press START button, digital shift, (flashing digital displacement), press CLEAR button to "add", press TOTAL button for "minus" to modify the current flicker bit value.. This coefficient increases when the amount of oil is reduced, the smaller the coefficient is, the more oil the oil is. 5 seconds to end the error coefficient calibration. Return to display the current charging status. After calibration of the error coefficient, the new measurement pulse input is used to calibrate the error coefficients. Error coefficient calibration range: 0 - 20000. The error of the flow meter and the oil is about 0.05%.

5. Unit Set

In standby mode or current charging status, press START key for 5 seconds. Enter the error coefficient of calibration status, press START key to enter the unit conversion, the screen is seen as UN 4, press CLEAR or TOTAL key, select cubic /M3 - /US - /GA - > /L - > /KG - > kg, while the total amount of filling in accordance with the current measurement unit conversion display. Press START button for 2 seconds or 5 seconds, exit from the unit conversion settings

6. Maintenance and maintenance

When the battery voltage is too low, the LCD display battery logo on the screen to remind the user to change the battery.

The battery life is too short to cause damage to the flow meter in the work period due to the leakage of the battery. The design of this meter is about 2 years, but it is recommended that the customer change the battery every year. It is recommended that the customer check the battery electrode once a year, if there is rust, should be cleared in time. Long time no flow time, should be removed from the battery

7. Common failure and troubleshooting

The phenomenon	Cause	Exclusion method
Gear rotary hard	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 pressure to be tested	Increase the pressure
	4.The wheel stuck	
	5.Flow over a specified rating 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	Enlarge the flow
	8.Bypass leakage	Check the bypass to prevent leakage
	9.Over a long period of time, gear wear too much	Change gear
	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	

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