

# OVAL GEAR INDICATOR MANUAL

## Operation Manual



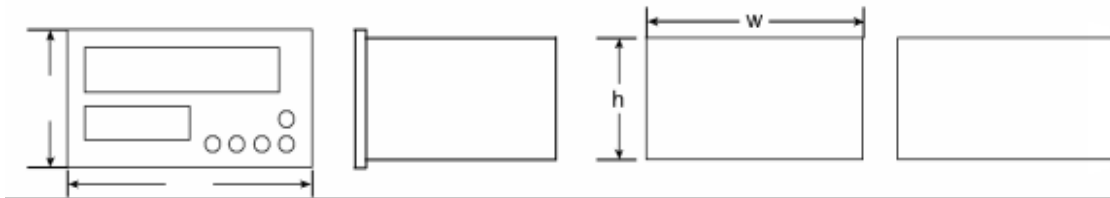
**Feature**

- Smart key to lock parameters. And with parameter locking safety feature prevents other people free to modify
- Meter with double LED and 6-digital display. multi indicate the operating states
- Power supply with 9-36VDC or 90-265 VAC
- EEPROM data memory and kept about 10 years
- CE certification and EMC Anti-interference
- Modulus free to set
- Manual and automatic reset feature
- Data memory when Power cut
- Free set output signal hold time.

**Parameter**

Same Para- meters	<b>Supply</b>	AC90-250V 50/60Hz(customized for AC/DC24V supply)
	<b>Power</b>	<3W
	<b>Relays work life</b>	Mechanical life: 500 million times Electrical life: 10 million times(Within the rated load)
	<b>Relay capacity</b>	250VAC/3A or 30VDC/5A
	<b>Environment</b>	-10 ~ 50°C (no icing);35 ~ 85% RH (humidity)
	<b>Insulation resistance</b>	≥20MΩ; 1.5KV/1M
	<b>Input signal</b>	Square wave, Positive wave Pulse signal 2V≤H≤30V:0≤L≤1V
	<b>Input resistance</b>	≥10KΩ
	<b>Supply Output</b>	12V( 80mA max )
	<b>Weight</b>	<500G
Counter Para- meters	<b>Input Speed</b>	30/1000cps
	<b>Scaling factor range</b>	00.000 ~ 99.999 or 0.00000 ~9.99999
	<b>Output hold time</b>	0.00 ~ 99.99S
	<b>Total Range</b>	00.0000 ~ 999999

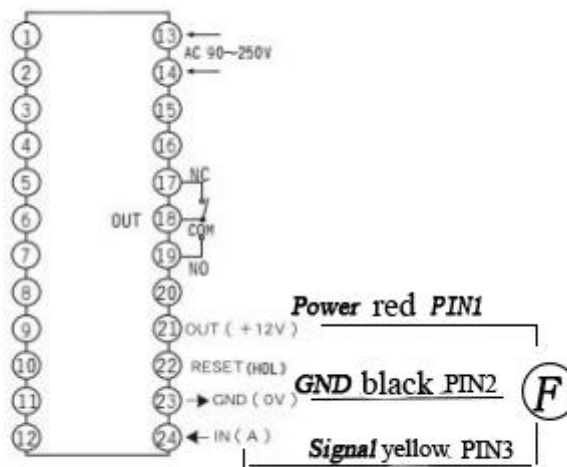
**Openings Size**



(Unit : mm)

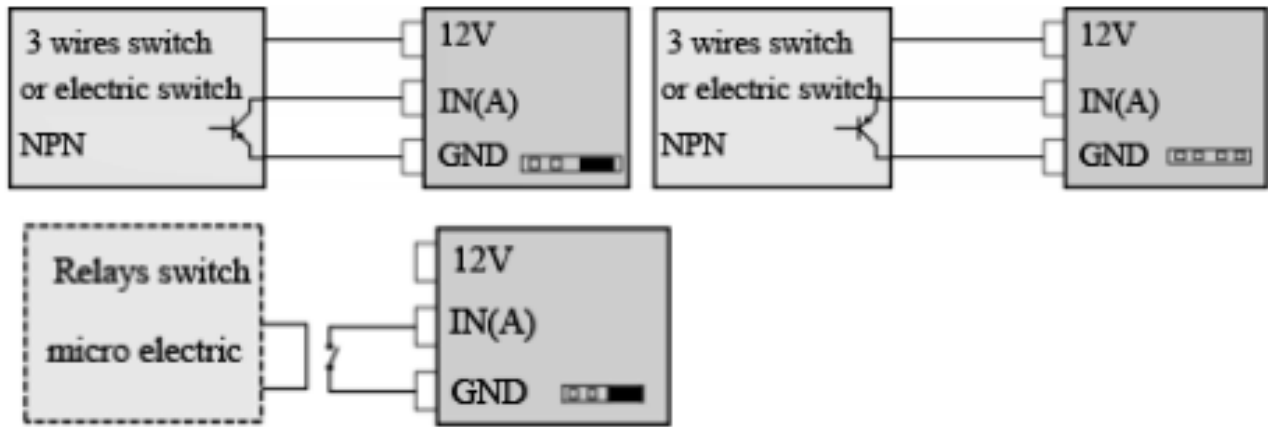
Panel size	W	Body size	h × w × l	Cutting hole	a × b
48 × 96		45.5 × 90.5 × 90		46.5 × 91.5	

**Wiring**



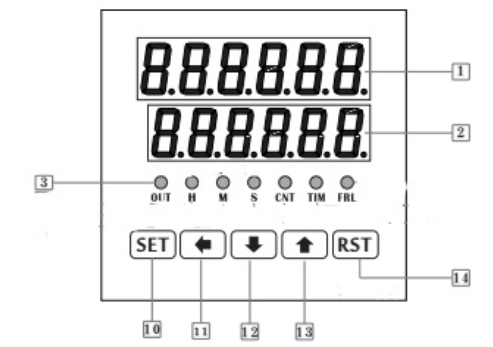
Note: If this wiring diagram and the actual instrument wiring diagram has a difference, please contact with your supplier.

### Meter and Sensor wiring



### Instruction

Code	Attributes	Explanation
1	Top Red LED	Cumulative and Instantaneous value Display Window
2	Bottom green LED	Alarm Output set Display window
3	OUT(red)	Alarm light. Light when alarm is active (The timing mode is R, Shiny delay period, the lower the delay time countdown )
10	SET(green)	1. In normal indication, pressing the button 30 seconds to enter the parameter setting group. 2. In parameter edit mode, press to modify the value of the store and go to the next parameter
11	◀ Left Alarm Set	1. In normal display, press this key to enter the SV set value modification 2. In the parameter setting, press to enter the parameter modification mode 3. In parameter edit mode, press the flashing cursor can be rotated to the left to move
12	▼ Down Set	Parameter edit mode, press to move the cursor down to decrement the value at the blinking
13	▲ Up Set	Parameter edit mode, press to move the cursor blink values of increasing upward
14	Reset	In normal display, press this key to perform the count or time zero setting
12+13	▲▼ Complex	Any setting screen, press the key composite key to return to the normal display



### Example

Item-1: For MDGM2-M2 flow sensor, the sensor K factor is:0.065mL/p  
To measure instantaneous flow. The measuring unit is“mL/M”  
To measure total flow volume. The measuring unit is “mL”

### Setting Procedure

- 1) Wiring ; ( Refer the Wiring )
- 2) Power on;
- 3) Press the **SET** key over 5s ,to enter the setup mode



- 4) Tap press **SET** key, to rolling down the parameters;

- 5) Rolling down to the parameter [**C -D -P**] ,



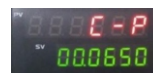
to modify the Decimal .

To press the left key,the parameters will flash ,to press the

up or down key to adjust the Decimal point .Press the **SET**

key to confirm.


- 6) To press the **SET** key to set [**C -P**]




set the total flow parameters . press the left key the

number flashing, press the **UP** or **DOWN** to set the parameter.

If the MDGM2-M2K=0.065 mL/M, please set C - P to 0.065 ( the measuring unit will be mL)

7) Press to **SET** the [F-P]  To set the instance flow. If the MDGM2-M2 K=0.065 mL/M, the parameter F-P shall be set to  $0.065 \times 60 = 3.9$ , then the measuring unit will be mL/M.


8) Press to set the RAN  Set the instance flow Decimal point, tap the left key the parameter is flashing, press the up or down key to set the Decimal point

## Item2: MDGM2-M5 test the total flow unit: L

Test the Instantaneous flow Unit : L/H


The k of M5, K=5.1 ml/p


### Setting Procedure


- 1) Wiring; (Refer the Wiring)
- 2) Power on;
- 3) Press the **SET** key over 5s, to enter the setup mode 
- 4) Tap press **SET** key, rolling down setting the parameters;

5) To set the **[C-D-P]**  Modify the Decimal

places. To press the **LEFT** key, the parameters is flashing, press the up or down key to adjust the place of Decimal point. Press the set key to confirm.

6) To press the **SET** key to set **[C-P]**  set the total flow parameters. press the left key the number flashing, press the up or down to set the parameter. If the MDGM2-M5 K=5.1ML/M, to set the 0.0051 (Unit: L)

7) Press to set the **[F-P]**  To set the instance flow. If the M5 K=5.1mL/M, The unit is ml the parameters may be 18.36. (unit: L/h)

8) Press to set the **[RAN]**  Set the instance flow place of Decimal point, tap the left key the parameters is flashing, press the up or down key to set the Decimal point.

**Item3: MDGM2-M6 test the total flow, unit: L**

Test the Instantaneous flow , UNIT:L/H

TheK of MDGM2-M6 K= 17ml/P

## 1. Setting Procedure

1) Wiring; (Refer the Wiring)

2) Power on;

3) Press the *SET* key over 5s ,enter to the setup mode




4) Tap press *SET* key,rolling down setting the parameters;

5) To set the [C-D-P]  Modify the Decimal

places .To press the left key,the parameters is

flashing , press the up or down key to adjust the place of

Decimal point.Press the set key to confirm.

6) To press the set key to set [C-P]  set the

total flow parameters . press the left key the number


flashing, press the up or down to set the parameter.

If the MDGM2-M6 K=0.17 MI /p, to set the 0.017 (Unit: L)

7) Press to set the [F-P]  To set the instance

flow.If the MDGM2-M6 K=17mL/p ,The unit is ml the parameters

may be  $17 \times 60 / 1000 = 1.02$  (unit: L/M)

8) Press to set the [RAN]  Set the instance

flow place of Decimal point ,tap the left key the parameters is

flashing ,press the up or down key to set the Decimal point.





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