



ISO 9001
REGISTERED

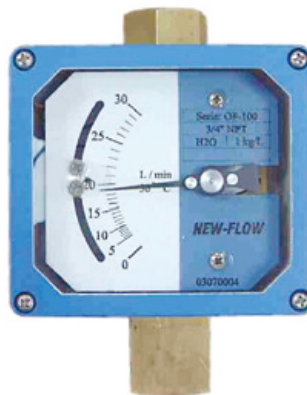
NEW-FLOW

MANUFACTURE OF FLOW SWITCH AND INDICATOR
OF 100 SERIES

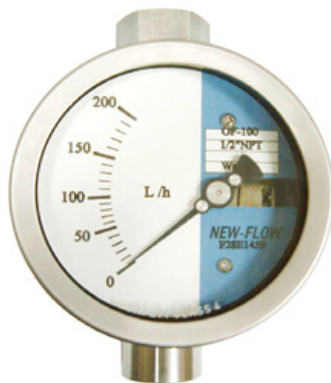
Instruction Manual



NS Type (Indicating only)



CS Type (With inductive switch)



ES Type (Indicating only)



MS Type (With micro or reed switch)

Approvals:



Switches with UL & CSA
Recognized and File No.
E41515.



TD0400TJ
工電(2015)第00151號
(ITRI)2017第07-00302號

Patent No.

Taiwan: M285697 / M338982 / M332836
China: 1187801

NEW-FLOW TECHNOLOGIES, INC.

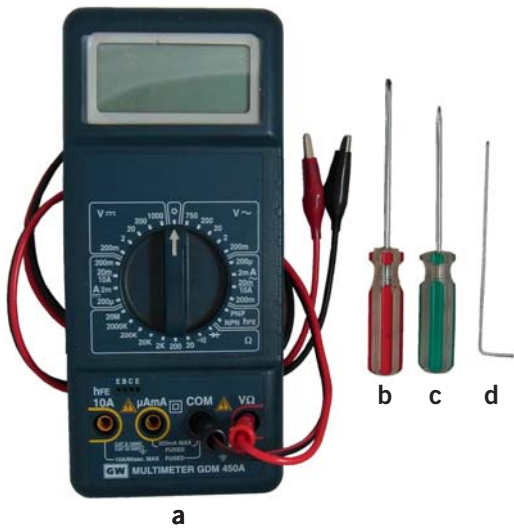
No.9 Lane 133, Xing-Hua St., Chien Chen Dist., Kaohsiung 806, Taiwan

TEL: 886-7-8135500 FAX: 886-7-8225588 / 8159758

Email: info@new-flow.com www.new-flow.com

INSTALLATION OF OF100

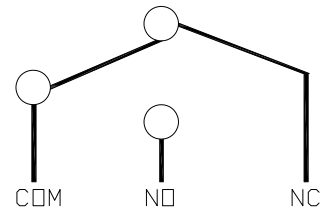
Necessary Tools



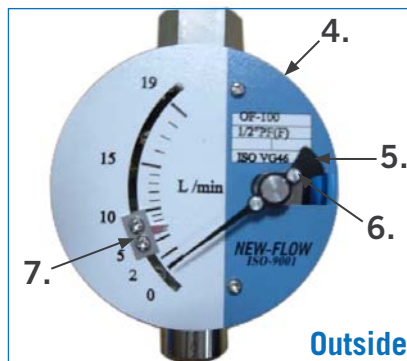
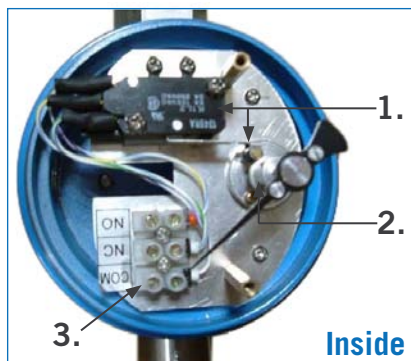
a	Multimeter
b	"+" Driver
c	"-" Driver
d	1.5mm Hexagon Key Wrench Set

Acting Principle

1. The micro switch provides SPDT function and offer NO.NC.COM contact for usage.
2. The revolving cam activates the micro switch to control the flow rate.



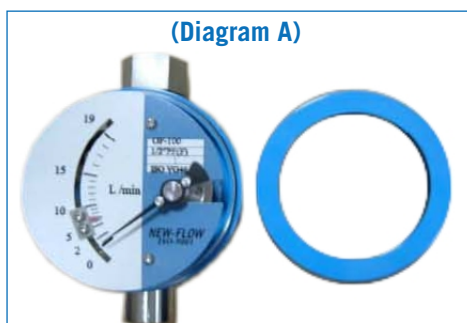
OF100 Assemblies



1.	Micro Switch
2.	Cam
3.	Terminal Block
4.	Scale Palte
5.	Flow Pointer
6.	Zero Adjustable Screw
7.	Alarm Pointer

The Setting Step

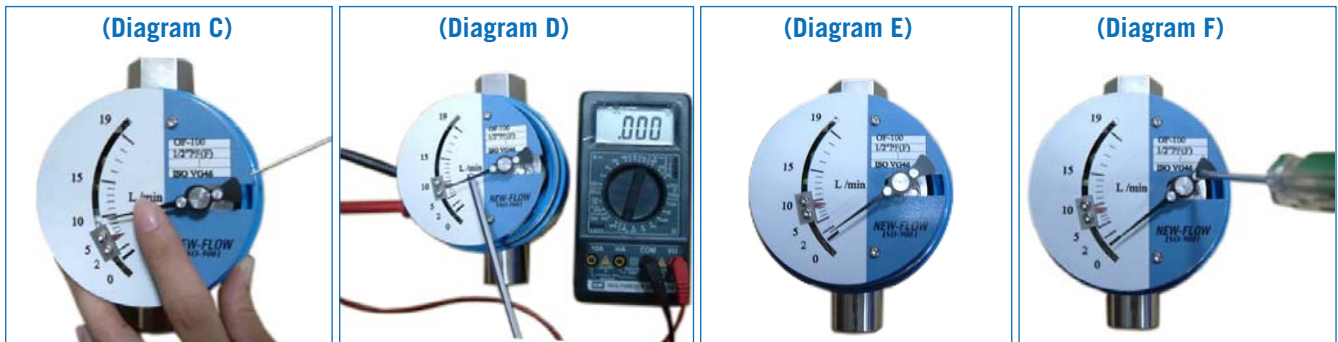
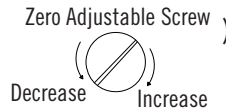
1. If the flow range needs to be reseted, please open an upper cover at first and relax the revolvable cam(2) with the hexangular key wrench(d). (as diagram B)
2. Turn the flow pointer(5) to the requested alarm set point with hand and hold the hand at the position (as diagram C). Let the revolvable cam touch the micro switch(1) to cause NO, COM short-circuited. When the multimeter displays zero (as diagram D), lock the cam tightly in place.



INSTALLATION OF OF100

3. Revolve the flow pointer(5) by hand and confirm the alarm setting whether it is correct by multimeter(a) once again.
4. If the alarm set point still incorrect, please repeat 1,2,3 steps until reach the alarm set point that you need.
5. Finally, move the alarm pointer to the alarm of new setting point and lock tightly by "+" driver with hand.
6. If the pointer didnt return zero (as diargm E), when there are not fluid through inside this flow meter.

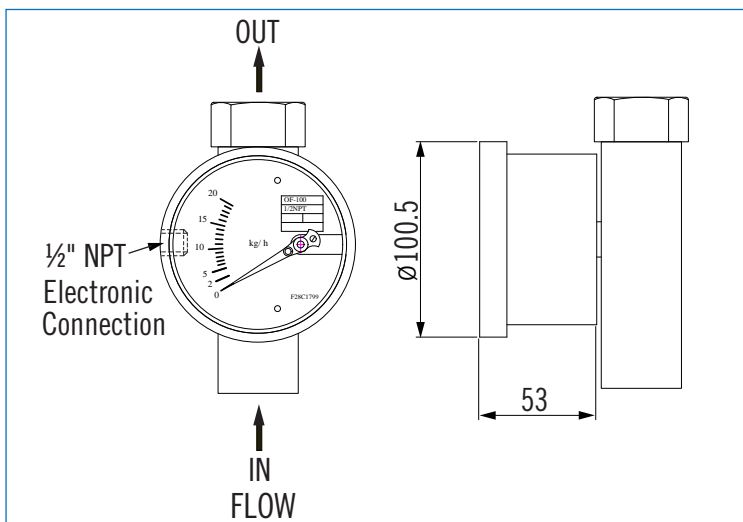
First, we have to keep the flow pointer(5) in zero and adjust the flow pointer in zero with "-" driver to revolve zero adjustable screw. (as diagram F, Zero Adjustable Screw)



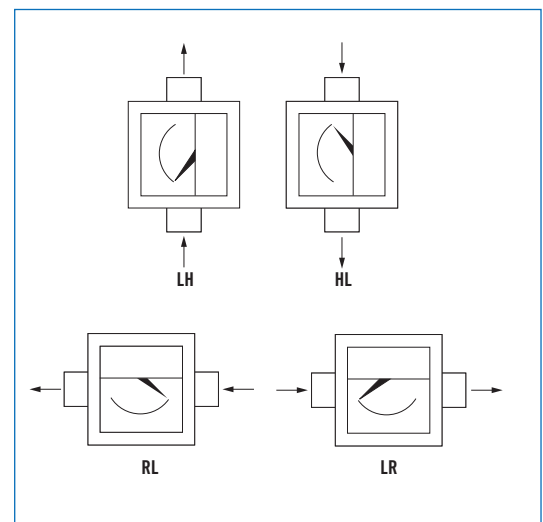
Notice

1. Please watch for the flow direction when you install.
2. After setting completon, please indeed lock the upper cover tightly, and have to a cable gland in entrance fixed cable to make sure water tightly.
3. If the fluid is dirty water or waste water, please installing filter at inlet to avoid fluid jump.

Dimensions



Flow Direction Type



INSTALLATION MANUAL OF OF100-GT

Main Parts List

Power Supply: 24V DC

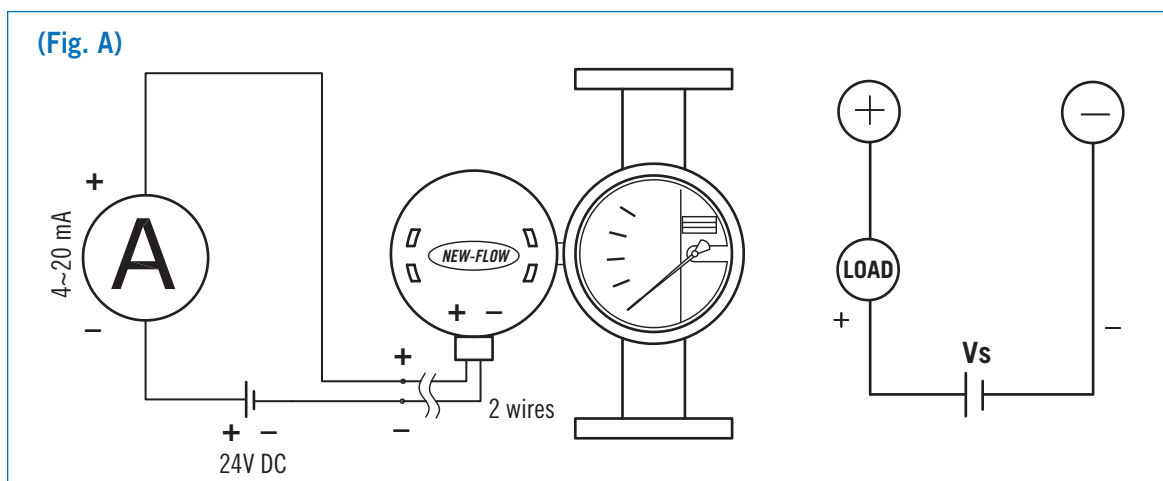
Output: Linear 4~20 mA (2 wires system)

Accuracy: $\pm 2\%$ F.S.

Tool: Multimeter, Program Communicator (GTP01), Power Supply (24V DC), “-” Driver



Program Communicator (GTP01)



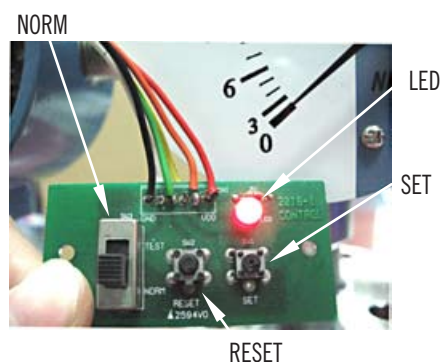
*** NOTE:**

1. Please keep flow pointer in zero match to 4mA.
2. BF300-GT don't need to calibration in user side at moment.
3. GTP01 needs to purchase in addition.

Program Steps Method



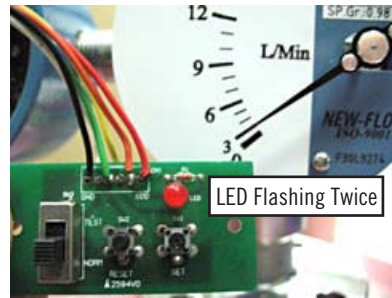
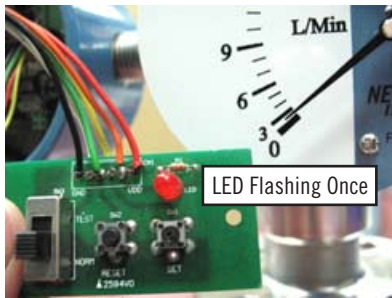
Connect junction terminal with circuit board.



Step 1. The junction terminal of program communicator with the circuit board as Fig. A. Then proceed to under steps.

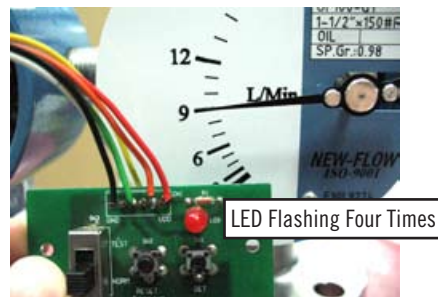
Step 2. Press and hold down the RESET button for 5 seconds, the LED lamp will light. Then release press and to keep indicating pointer on “0” point of scale. Then press SET button to start proceed another step. LED lamp will become dark.

INSTALLATION MANUAL OF OF100-GT



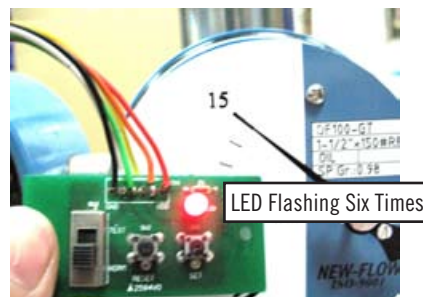
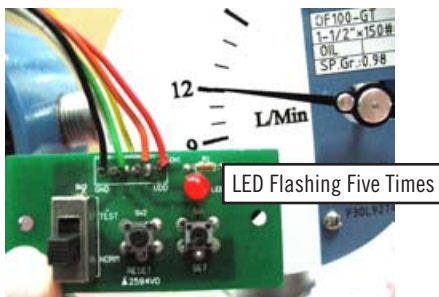
Step 3. To move indicating pointer to 10% of full scale, LED will flashing once on intermittence. Then, press SET button and start another steps.

Step 4. To move indicating pointer to 20% of full scale, LED will flashing twice on intermittence. Then, press SET button and start another steps.



Step 5. To move indicating pointer to 40% of full scale, LED will flashing three times on intermittence. Then, press SET button and start another steps.

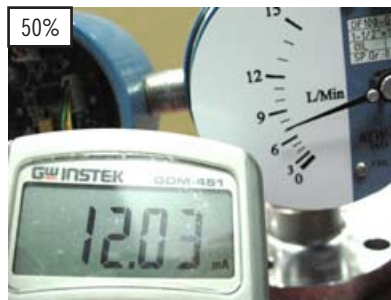
Step 6. To move indicating pointer to 60% of full scale, LED will flashing four times on intermittence. Then, press SET button and start another steps.



Step 7. To move indicating pointer to 80% of full scale, LED will flashing five times on intermittence. Then, press SET button and start another steps.

Step 8. To move indicating pointer to 100% of full scale, LED will flashing six times on intermittence. Then press SET button, LED will become dark. At the meantime, the procedured of program sets are finished.

INSTALLATION MANUAL OF OF100-GT



Step 9. After completion the above-mentioned steps, please check of the flow rate 0~100% compare with the output signal 4~20mA or not. If output signal can't match to the flow indicator as under flow table of step 10, it should be re-set again according to *Program Steps Method*.

Step 10. Flow table and Output signal (example: flow range 0~2000 L/H)

mA	%	LPM	LED
4	0	0	Off
5.6	10	1.5	Flash once
7.2	20	3	Flash twice
10.4	40	6	Flash three times
13.6	60	9	Flash four times
16.8	80	12	Flash fivetimes
20	100	15	Flash six times

Note

1. Above all, please confirm the input power supply and the wiring mode that are correct.
2. After setting completion, please indeed lock the upper cover tightly, and have to a cable gland in entrance fixed cable to make sure water tightly.
3. If the process of program set is error, please press and hold down the SET button until the LED lamp turns off. Then re-set it again according to *Program Steps Method*.
4. Moves the indicator by manual and test run directly after the flow meter completion of installed, all of they are workable.
5. The flow meter has completed program before shipping, therefore it doesn't need to program once more.