

LEVEL INDICATOR WITH ANALOG OUTPUT



DFIC-4U

Application

This DFIC-4U Series Level Controller gets 4-20mA current signal output from the sensor installed in the tank and displays the level of the liquid in the tank as percentage (0~100%) at 0.5 unit.

It is very much easy to install and adjust freely on-off switch of the pump at site.

Also, it is able to monitor the status at site without using meter.

User can select one 4~20mA Analog Output (Meter), two Alarm Relays, one Control Relay, or one Buzzer Relay as per user's purpose and circumstance.

You can change the alarm setting value by using the four keys on the front panel.

It is easy to read the values even in dark place or long distance for a 5-digit 7-segment LED is installed on the front panel Meter.

- DC 24V Power Supply
- Easy Control (On/Off).
- 2ea Alarm, 1ea control.

Technical Data

• Display	: 5-Digit 8.0mm (0.315 Inch) / High 7-Segment L.E.D
• Display Update Rate	: 0.25 Sec
• Transducer Supply	: 24 VDC , 59mA
• Operating Temperature	: 0°C ~ 60°C
• Dimensions	: 87mm (Wide) , 155mm (High) , 69mm (Deep)
• Resolution	: 8 bit
• Accuracy	: less then 0.5%
• Max. Switching Current Capacitor	: 1250VA, 150W
• Max. Switching Voltage	: 250VAC, 30VDC
• Max. Switching Current	: 5A
• Material	: Polycarbonate & A.B.S

Operation

This mode is to set the position of control contact point and alarm contact point.

You can set the position of ON and OFF points of control contact point and two alarm contact points as High Alarm Point (HH-P) and Low Alarm Point (LL-P).

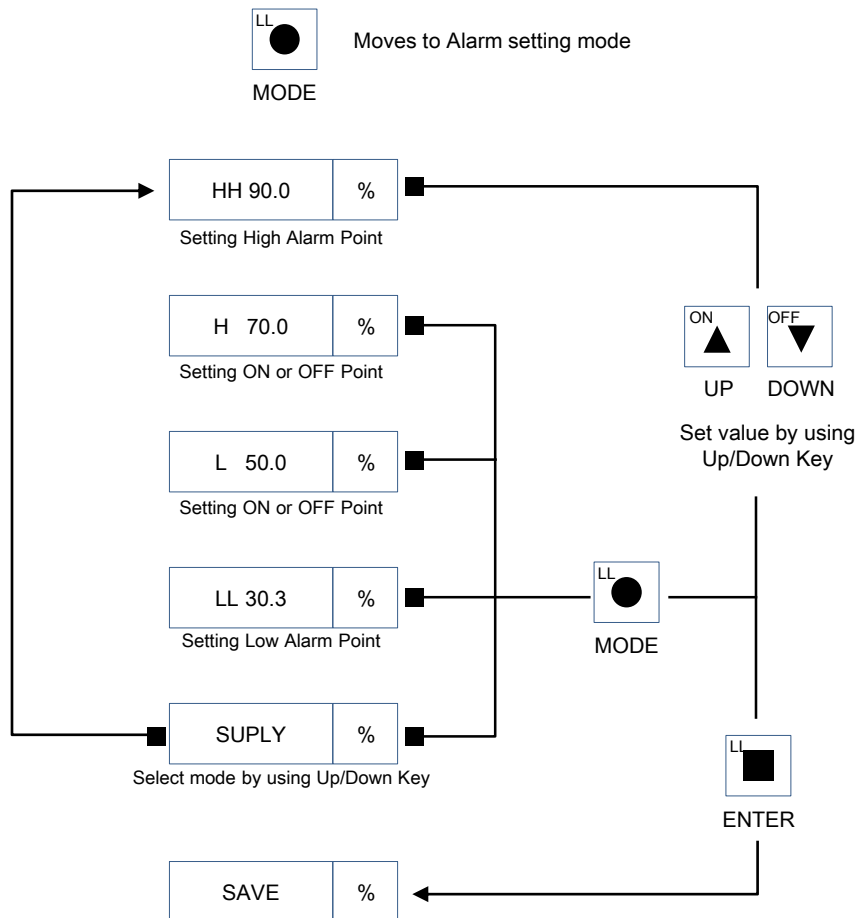
Your need to set correctly for as per working mode (supply or drain), the ON and OFF control contact point works contrary.

For example, in case of supply, the High Point (H-P) becomes OFF point of control contact point and the Low Point (L-P) becomes ON point.

And in case of eject (drain), the High Point (L-P) becomes OFF point.

HH 100	%
--------	---

Displays liquid level as % unit. Works relay control and current re-transmission. We call it as Basic Operation Mode



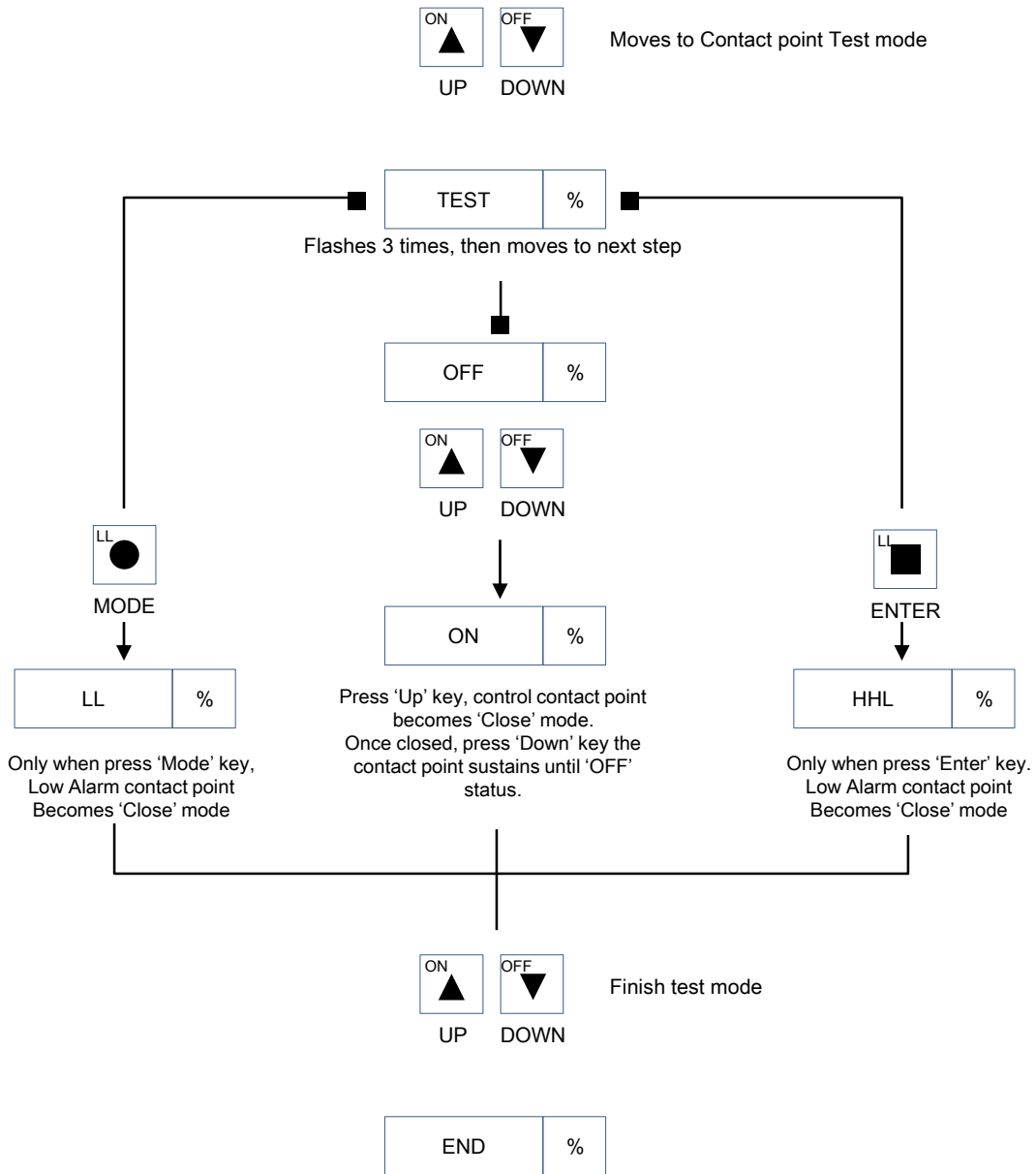
- The default setting of supply is as 90.00%(HH-p), 70.00%(H-P), 50.00%(L-P), 30.00%(LL-P).
- The value should be HH-P > H-P > L-P > LL-P. If the sequence is set incorrectly, error occurs.

Relay Test

This mode is to test control / alarm contact point of the controller.

HH 100	%
--------	---

Displays liquid level as % unit. Works relay control and current re-transmission. We call it as Basic Operation Mode



Display Operation

1. If the setting is not correct or in case of malfunction, 'Error' message display.

And the message is as below.

ERROR	%
-------	---



In case of Alarm Point setting

This is an error message when the setting of point is not set as the sequence of HH-P > H-P > L-P > LL-P.

SHORT	%
-------	---



Input Error

This message displays when the output from the sensor does not input to the controller.

OPEN	%
------	---



Input Error

This message displays when the output from the sensor does not input to the controller.

2. Relay Output Operation

There is an output of high alarm when the value is over 'HH-P' setting.

There is an output of low alarm when the value is under 'LL-p' setting.

The Control contact point becomes "ON" when the value is under "L-P" (in case of Supply mode)

The Control contact point becomes "OFF" when the value is under "H-P" (in case of Supply mode)

The Control contact point becomes "ON" when the value is under "H-P" (in case of Eject mode)

The Control contact point becomes "OFF" when the value is under "L-P" (in case of Eject mode)

3. Analog Output Operation

This function is to re-transmit the value of current level to other equipment.

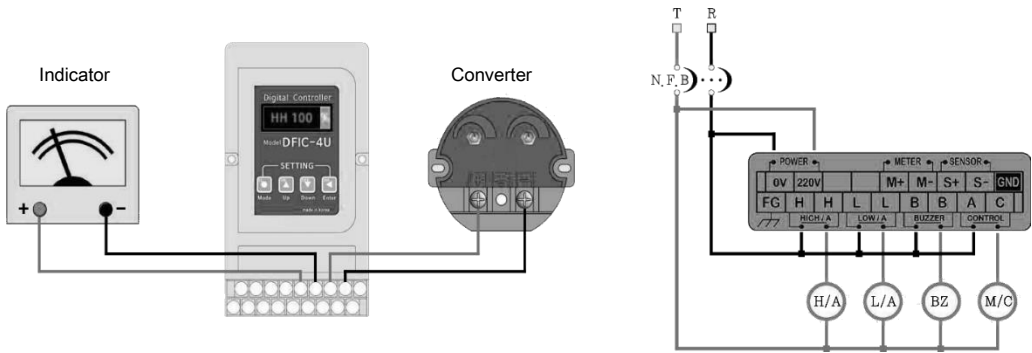
When you want to change the output for the setting is not correct, please refer to an extra calibration manual.

The current output include self power, there is no need of extra power supply.

LEVEL INDICATOR WITH ANALOG OUTPUT

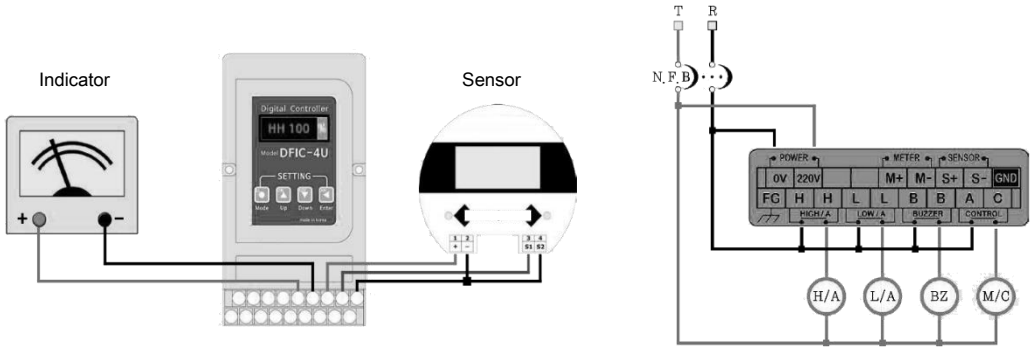
Wiring Diagram

Wiring to a [Two Wire – Current Input]



Terminal – Features & description

Wiring to a [Four Wire – Current Input]



Terminal – Features & description

Shape Dimension

