# CFIA-40 4 Digital Field Indicator

## BRIEF

CFIA-40 loop powered smart LED display units are special design for two wired current loop, powered by loop power, and no external power needed.

## FEATURES

1. Using LED to display, and able to be used in dark environment.
2. No external power needed.
3. Able to display measured value like pressure, temperature and depth etc.
4. Display solution 1/9999.
5. Isolated alarm open drain output.
6. Voltage drop will below 4 volt.

## OPERATION

In the following statement, "▲+▼" means press "▲" and "▼" simultaneously

### POWER ON

i. Connect the display unit into "4-20mA" Loop (reverse protected), the display unit works.

ii. Press ▲+▼ to enter user menu, and press ▲ and ▼ to navigate through the menu system.

## SET ZERO

i. Keep pressing ▲ or ▼ until menu  displayed.

ii. Press ▲+▼ to enter zero adjustment, the default value will be 0000 , press ▲ and ▼ to adjust the display value.

iii. Press ▲+▼ to save the result.

## SET SPAN

i. Keep pressing ▲ or ▼ until menu  displayed

ii. Press ▲+▼ to enter span adjustment, the default value will be 1000, press ▲ or ▼ to adjust the display value.

iii. Press ▲+▼ to save the result.

## SET DECIMAL POSITION

i. Keep pressing ▲ or ▼ until menu  displayed

ii. Press ▲+▼ to enter decimal point adjustment, the current setting will be displayed, press ▲ or ▼ to change the position.

iii. Press ▲+▼ to save the result.

## SET DAMP TIME

i. Keep pressing ▲ or ▼ until menu  displayed

ii. Press ▲+▼ to enter damp time adjustment, the current setting will be displayed, press ▲ or ▼ to adjust the position, the valid range will be 1 ~ 200.

iii. Press ▲+▼ to save the result.

## SET ALARMING MODE

i. Keep pressing ▲ or ▼ until menu  displayed

ii. Press ▲+▼ to enter alarming mode setting, the current setting will be displayed, press ▲ or ▼ to change the setting.

iii.  means alarms are active.

iv.  means alarms are inactive.

v. Press ▲+▼ to save the result.

## SET ALARM 1 VALUE

i. Keep pressing ▲ or ▼ until menu  displayed

ii. Press ▲+▼ to enter alarm 1 value setting, the current setting will be displayed, press ▲ or ▼ to adjust the position.

iii. Press ▲+▼ to save the result.

## SET ALARM 2 VALUE

i. Keep pressing ▲ or ▼ until menu  displayed

ii. Press ▲+▼ to enter alarm 2 value setting, the current setting will be displayed, press ▲ or ▼ to adjust the position.

iii. Press ▲+▼ to save the result.

## SET ALARM 1 DIRECTION

i. Keep pressing ▲ or ▼ until menu  displayed

ii. Press ▲+▼ to enter alarm 1 directions setting, the current setting will be displayed, press ▲ or ▼ to change the setting.

iii.  means the alarm is on when current value is above the alarm value.

iv.  means the alarm is on when current value is below the alarm value.

v. Press ▲+▼ to save the result.

## SET ALARM 2 DIRECTION

i. Keep pressing ▲ or ▼ until menu  displayed

ii. Press ▲+▼ to enter alarm 2 directions setting, the current setting will be displayed, press UP or ▼ to change the setting.

iii. Press ▲+▼ to save the result.

## SET ALARM 1 HYSTERESIS

i. Keep pressing ▲ or ▼ until menu  displayed

ii. Press ▲+▼ to enter alarm 1 hysteresis adjustment, the current setting will be displayed, press UP or ▼ to adjust the position, the valid range will be 0-9999.

iii. Press ▲+▼ to save the result.

## SET ALARM 2 HYSTERESIS

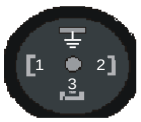
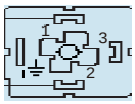
i. Keep pressing ▲ or ▼ until menu  displayed

ii. Press ▲+▼ to enter alarm 2 hysteresis adjustment, the current setting will be displayed, press ▲ or ▼ to adjust the position, the valid range will be 0-9999.

iii. Press ▲+▼ to save the result

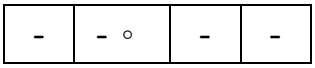
## CONNECTION DIAGRAM


| | Second Alarm | None |
|---|---|---|
| Top PIN1 | Power+ | Power+ |
| Top PIN2 | Alarm1 | Power- |
| Top PIN3 | Alarm2 | |
| Top PIN4 | Power- | |
| Bottom PIN1 | Transmitter+ | |
| Bottom PIN2 | Transmitter- | |
| Bottom PIN3 | Empty | |
| Bottom PIN4 | Empty | |

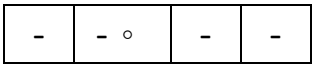
| | |
|---|---|
|  Top side |  Bottom side |

Note:

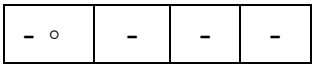
1. Display has a physical meaning, when setz , sets and dot set zero and span

   Setz setting 400, Sets setting 2000, dot setting , 

   when display 4~20mA

   Setz setting 0000, Sets setting 1000, dot setting 

   when display 0~10M

   Setz setting -1000, Sets setting 0000, dot setting 

   when display -100~0KPa

2. Up is means current value is above the alarm value. Down is means current value is below the alarm value. Alarm setting has to between the Zero and Span.

3. Alarm drive is 10mA if exceed this value need external drive

4. HILO is alarm switch