Details User Manual of Differential Pressure Transmitter

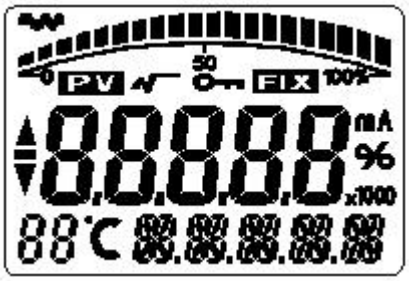
LCD Display

The user can set the variables displayed on the LCD and the number of decimal places displayed by the configuration software. See "Configuration" → "Output characteristics" in the configuration software section.

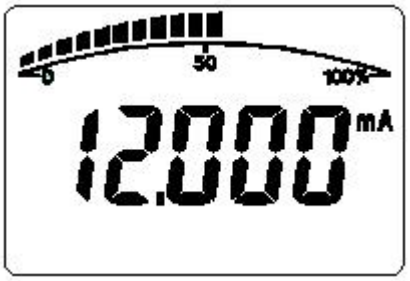
LCD supports dual variable display, you can set the display variables, including current, percentage of the main variables and the main variable; each variable can be set to display the decimal point position: 0,1,2,3,4.

If the two display variables are the same, the LCD displays only one variable; otherwise, the LCD alternates the displayed display variable at 3-second intervals.

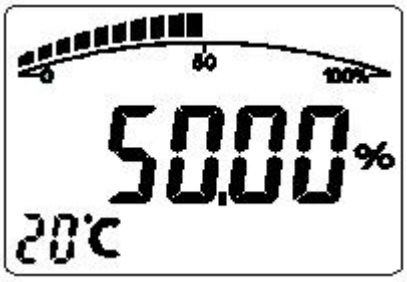
LCD full display：



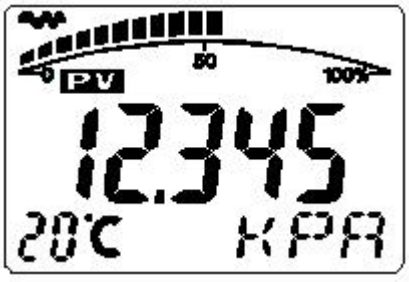
Current display：



Percentage of the main variables display：



Main variable display：



Other Display Description:

If in communication status, blinks display at the upper left corner of LCD.

If square root output , the LCD will display .

If the fixed output current, LCD display FIX.

If write protection is enabled, the LCD will display .

If the temperature display is activated, When in real time ,the "88" character in the lower

left corner of the LCD will show the temperature and the temperature is lower than -19 ℃ or greater than 99 ℃ when displaying .

Key functions

Key Mode Description

The standard headers have three buttons, "M", "S" and "Z".

Also support two keys, respectively, "S", "Z".

"Three-button" operation: the operation more quickly, for the LCD with three buttons on the product.

Z key to enter the prompt data setting interface and shift;

S key to enter the data setting interface, increase the number and data preservation;

M key for data storage.

Note: In the three-key mode, you can press the "M" key at any time to save the current setting data.

"Two-button" operation: This mode of operation is normally used when there are only two non-contact keys on the outside.

Z key to enter the prompt data setting interface and shift;

S key to enter the data setting interface, increase the number and data preservation.

Note: In the two-key mode, you can not save the setting data by pressing the "Z" key until the arrow at lower-left corner flashes.

Key function code :

When using the keypad configuration, the "88" character in the lower left corner of the LCD is used to indicate the current set variable type, that is, the setting function performed by the current key. The corresponding relationship is:

the "88" character in the lower left corner	set variable
0 or Spaces	displayed normally
1	Enter the operation code (you can directly enter the following functions and the corresponding number to directly set the corresponding function)
2	Set the units
3	Set the down limit of the range
4	Set the up limit of the range
5	Set the damping
6	Main variable zero
7	Zero point and span migration
8	Output characteristic 【Setting linear output, or square root output】

。Note: By entering the corresponding operation code for each function, you can quickly enter the

corresponding function. For example, enter "5", directly enter the set damping function.

Change the LCD display

Normal display, long hold S key, display switching between the current, the main variable, the percentage .And release when changed to your required display At this time ,

The transition is displayed once every 3 seconds. When the unnecessary variable appears, repeat the above operation once.

Menu 2: Change units

Normal display, long press Z key, the screen 5 numbers 0 flashes in turn. And release when right-most flashes , press the S key, changed the number to "00002"

Press the M key once, the LCD bottom left corner shows the number "2".

Each time press the S key, the lower right corner of the unit switch one, until the required units appear, press the M key to save.

Menu 3/4: Change the range

Normal display, long press Z key, the screen 5 numbers 0 flashes in turn. And release when right-most flashes , press the S key, changed the number to "00003"

Press the M key once, the LCD bottom left corner shows the number "3".

Press the S key once, the leftmost arrow flashes, press the Z key to shift, and press the S key to change the number. The right-most bit flashes, press the Z key, the decimal point all bright,

Press S to select the decimal point position. Press the M key after the input, save the data and automatically switch to the upper range. (Note: If you do not need to adjust the lower limit, enter"3" can be directly press the M key to skip directly into the "4")

At this time the lower left corner of the LCD display "4", repeat the above operation, change the number and press the M key to save.

Menu 5: Change damping

Normal display, long press Z key, the screen 5 numbers 0 flashes in turn. And release when right-most flashes , press the S key, changed the number to "00005"

Press the M key once, the LCD bottom left corner shows the number "5".

Press the S key once, the leftmost arrow flashes, press the Z key to shift, and press the S key to change the number. The right-most bit flashes, press the Z key, the decimal point all bright,

Press S to select the decimal point position. Press M after input, save the data and switch to menu 6 automatically.

Menu 6: Zero the main variable

Normal display, long press Z key, the screen 5 numbers 0 flashes in turn. And release

when right-most flashes , press the S key, changed the number to "00006"

Press the M key once, the LCD bottom left corner shows the number "6".

Press the S button, the lower right corner shows switch between"NO" and "YES" , when the display "YES" press the M key to complete the zero.

Shortcut key: Press M + Z key for 5 seconds while normal display. The lower left corner of the LCD display number "6", other operations above.

Menu 8: Output Functions

Normal display, long press Z key, the screen 5 numbers 0 flashes in turn. And release when right-most flashes , press the S key, changed the number to "00008"

Press the M key once, the LCD bottom left corner shows the number "8".

Press the S key and the lower right corner toggles between "LIN Linear" and "SQRT Current Preset" and press the M key when the desired function appears.

Menu 9/10: Calibration upper and lower limits

Normal display, long press Z key, the screen 5 numbers 0 flashes in turn. And release when right-most flashes , press the S key, changed the number to "00009"

Press the M key once, the bottom left corner of the LCD display number "9".

Press the S key once, the leftmost arrow flashes, enter the calibration, add the corresponding pressure, press the Z key to shift, press the S key to change the number, the right most bits flash

, Press the Z key, the decimal point all bright, press S to select the decimal point position, press the M key after the input, save the data and switch to the upper calibration range.

At this point the lower left corner of the LCD display "10", add the corresponding pressure, repeat the above operation, enter the pressure value and then press the M key to save.

Note: This function requires both 9 and 10 menus to be calibrated at the same time! And the upper and lower limits can not be the same pressure!

Menu 11: Any point migration

After adjusting "10", it will enter automatically. Refer to 9/10 item setting data mode. Set the value (current pressure value) to be transferred to the screen.

press the M key, you can save the data.

Note 1: In 2-3-4-5-6-8 in any of the menu, Each time press the M key , will switch to the next menu, if there are changes will be saved at the same time.

Menu8, the next menu is 0 indicates a normal display state, then if no key operation, after 3 seconds automatic exit adjustment state, start the normal display. If there is a button operation within 3 seconds

, repeat the 2-3-4-5-6-8 menu.

Note 2: Menu 9-10-11 need professional operation, so no longer within the cycle, only through the "00009" to enter.