

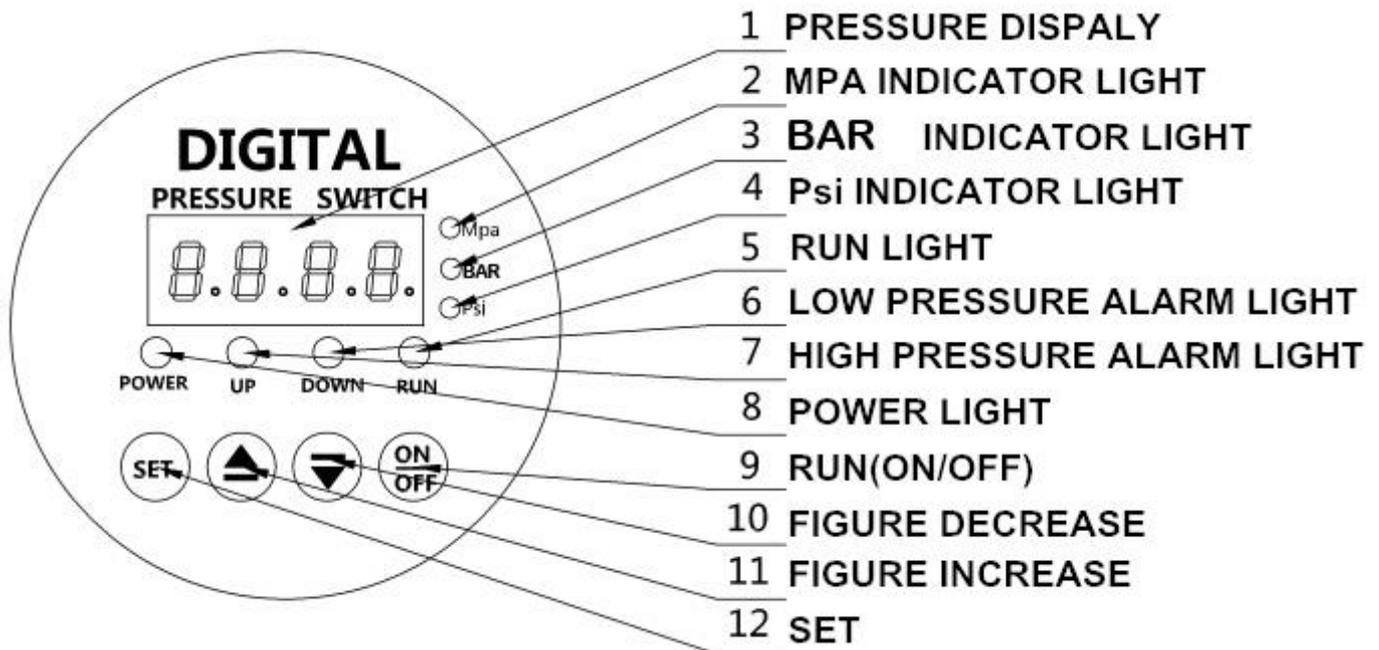
DIGITAL PRESSURE CONTROLLER INSTRUCTIONS

It is an intelligent digital pressure switch setting pressure measurement, pressure display, control in one professional unit. It has followed features: easy operation, good shock resistance, high precision, long-term stability.

It can realize the control function: low pressure to stop, the high pressure to start or the high pressure to stop, the low pressure to start. The control pressure can be set up in the whole range. It also has the followed functions: delay control, reverse control, three pressure units to change, one key to error clearing, leakage pressure protection, password protection, pressure detection automatically.

It is widely used in building water supply, hydraulic pressure control, supporting equipment of automated machine.

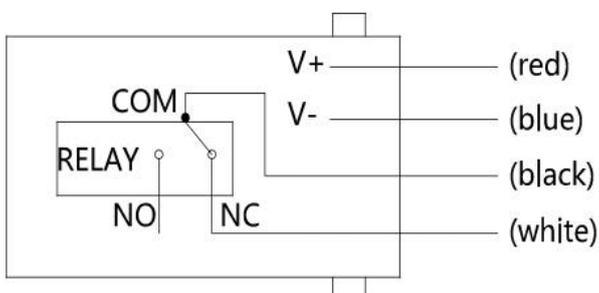
1. APPEARANCE



2. SPECIFICATION

| | |
|-----------------------|--|
| Pressure Range | 0-0.2...0.6...1...1.6...2.5...5...10...25...40...60Mpa |
| Overload Pressure | 150% |
| Acc. | 0.5%FS |
| Supply | 24VDC, 220VAC, 380VAC (Selectable) |
| Alarm Point Set | Any point can be set within the range. |
| Output Signal | Relay signal |
| Load Capacity | 380V 3A 220V 5A 24V 5A |
| Sampling Frequency | 5 Times/sec |
| Operation Temperature | -20℃~80℃ |
| Measurement Medium | Liquid, gas compatible with 316L stainless steel. |
| Connection Protection | Reverse protection, short-circuit protection |
| Connector | M20*1.5, G1/2, G1/4 (selectable) |
| Outlet Line | Power: red blue Output: black white |

3. CONNECTION METHOD



Working Method: When the pressure increases to the set upper limit of pressure, the black and white lines are disconnected; when the pressure decreases to the lower limit pressure, the black and white lines are connected.

Reverse control function(t000) can be opened in system function to achieve: high pressure to start, low pressure to stop.

* **The outlet color finally is based on the product label.**

4.PRODUCT INSTALLATION AND SET

| | | |
|--------------|--|---|
| Installation | Use wrench to install.(Do not twist housing to install.) | |
| Connecting | Please follow the above wiring method to correct the wiring. please check the connection before the power. | |
| Set | Zero Clearing | After power, without pressure, close the 'run' key, long press '▼' key for 5 seconds to zero clearing. |
| | Units Change | Close 'run' key, short press '▲' key to change pressure unit circularly. |
| | Upper and lower limit setting | Close 'run' key, short press 'set' key, it shows lower limit pressure and the low pressure warning light comes on; press '▲"▼' to change the figure(long press, the figure changes quickly), after setting, short press 'set' key to save setting. Then it shows upper limit and high pressure warning light comes on, press '▲"▼' to change the figure(long press, the figure changes quickly), after setting, short press 'set' key to save setting and quit automatically. (if the lower limit can not reach to the figure you want, you can set upper limit firstly.) |
| | Run | After setting, short press 'run' key to open. (The 'run' key must be closed before setting) |

5.SYTEM FUNCTION

Close 'run' key, long press 'set' key for 3 seconds to enter to system set, then short press 'set' key, it will show the follow functions modes. After setting the function, press 'run' key and it will save the setting automatically.

*Notice: It means the function closed when it shows '*001'; it means the function open when it shows '*000'. Factory default is all functions off.

| Function Modes | Function Description | Purpose | Setting Method |
|--|--|---|--|
| <i>H001/H000</i> Delay Control | H001:When pressure reach to action point, the controller will delayed act, not immediately. The delay time can be set. | Delay control will prevent the motor starting frequently because instability pressure of tube. | Press '▼' key to change 'H001' to 'H000', then the screen shows '0010' and it means the delay time is 10 seconds. Press '▲"▼' to change the figure(the unit is second), then press 'set' key to save the setting and quit. |
| <i>P001/P000</i> Parameter Protection | Function open: Press any key expect the 'run' key, the screen will shows '----'. At this time, it needs to input passwords to set upper and lower limit value. | It protect the upper and lower limit value from being revised arbitrarily. | When it shows '----', press '▲' key to input passwords, and press 'set' key to shift. Short press 'set' key after input '1111', the parameter can be set. |
| <i>T001/T000</i> Reverse Control | Function open: it will be NO when the pressure low than lower limit; it will be NC when the pressure high than upper limit. | It will achieve the reverse control. | Press '▲"▼' to open or close the function. |
| <i>S001/S000</i> Pressure Detection Automatically | Function open: After relay NC, the controller will disconnect the relay automatically when there is no pressure for 3 minutes. The screen will show 'E--1' | It prevents the water pump idling because the pressure will not reach to the upper limit due to water shortage, pipe leakage. | When is shows 'E--1', pressure '▲"▼' to open or close the function. |
| <i>F001/F000</i> Water Shortage Protection | When the water pressure low than the set water shortage protection value, it will close the motor and shows 'E--F' | It prevents the water pump idling because the pressure will not reach to the upper limit due to water shortage, pipe leakage. | Change F001 to F000, Screen flicker and show the water shortage protection value, press '▲"▼' to change the value. |
| <i>L001/L000</i> Detection Time | In case of water shortage protection function, the water pressure does not reach to the water shortage protection value in the setting of the detection time, the relay will disconnect and show 'E--F'. | It prevents the water pump idling because the pressure will not reach to the upper limit due to water shortage, pipe leakage. | Default time is 20 seconds, then it enter to parameter. Press '▲"▼' to change the parameter. When the water shortage protection closed, this function will close automatically. |

***It must be careful for system setting, Wrong setting leads the product to abnormal operation and even destroy the product**

6.COMMON PROBLEM AND SOLUTION METHODS

| NO. | Description | Cause | Solution |
|-----|--|--|--|
| 1 | Reaching to set pressure, the motor does not work. | The wiring Error or the contactor damage | 1.Check the wiring 2.Check AC contactor |
| 2 | Motor start frequently | numerical space of Upper and lower limit is too small | 1.Change the upper and lower limit value 2.Open delay control function 3.Increasing pressure tank, buffer pressure |
| 3 | Showing '----' | Passwords protection function is opened. | Input '1111', then change the parameter. |
| 4 | Showing 'E--F' | Water shortage protection function is opened. | Press 'run' key to restore. Or change the water shortage protection value. |
| 5 | Showing 'E--E' | The circuit of sensor or controller is damage. | Product scrap or factory repair. |
| 6 | Showing 'E--1' | Pressure detection Automatically is opened. | Pressure any key to back to operation. |
| 7 | Showing 'E--H' | The pressure is higher than the range, sensor destroyed. | Reduce the pressure or chose a more lager range controller. |

7.ATTENTION

- 1.Please check the packaging, appearance, model and specification when you receive the good.
- 2.Please follow the above wiring method to correct the wiring, please check supply voltage and the connection before the power. (The damage that caused by wrong connection is outside the scope of warranty.
- 3.Don't install the product in the power state.
- 4.This product has a built-in pressure sensor, belonging to precision device. Don't disassemble the product at your own discretion. Don't touch the mebrane with hard objects.
- 5.During installation and disassembly, please use wrench. Don't twist the product shell forcibly with your hand to install or disassembly. Otherwise, the damages you caused are outside the scope of warranty.
- 6.During installation, the product will be influenced by assembly stress. Finishing installation, please reset before you use it.
- 7.Appearing abnormal phenomenon, if you don't have the specialized equipment and technology, please contact the after-sales technical staff of the company.