

LEFOO

LFDS62 Series
INTELLIGENT PRESSURE
CONTROLLER

Operating Instruction



FEATURES

- Self-adjusting working parameters, flexible and convenient.
- High precision, monitor load current in real time
- Integrating pressure measurement, display and control
- Rated current can be set, with over current protection function
- Dry pumping and fast cycle alarms

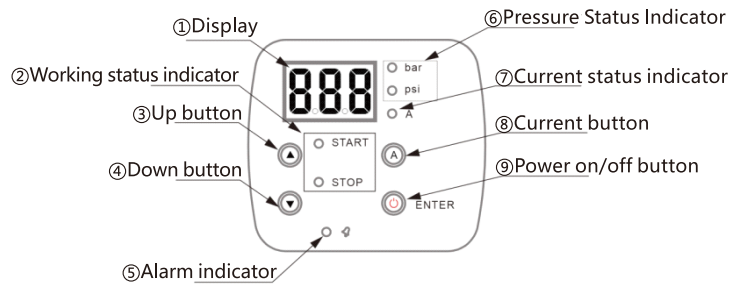
OVERVIEW

LFDS62 series adopts high reliable ceramic core transmitter for pressure measurement. The signal is processed by the back-end circuit and displayed, and the relay output is automatically controlled according to the pressure change. The switch pressure and rated current can be set by pressing the button, and the LED real-time display of the current pressure can also switch to display the output current, and has an over current protection function. When used in a water pump system, the dry pumping alarm can be turned on to protect the motor. In addition, according to the actual needs of the site, the rapid cycle alarm function can be turned on to avoid frequent start and stop of the motor. This series of products have the characteristics of earthquake resistance, simple operation, strong stability and clear display. It is suitable for air compressors, water pumps and other pressure control.

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INTRODUCE

INTERFACE AND KEYS



- Short press the up button to display the starting pressure
- Short press the current button to display the current current
- Short press the down button to display the stop pressure

1. Set start and stop pressure

- Long press ③ to set the starting pressure or Long press ④ to set stop pressure
- Short press ③/④ to adjust start/stop pressure
- Short press ⑨ to confirm

3. Clear

- Press ④+⑨ at the same time to clear

2. Set the rated current

- Long press ⑧ to set the rated current
- Short press ③, ④ to adjust the rating current

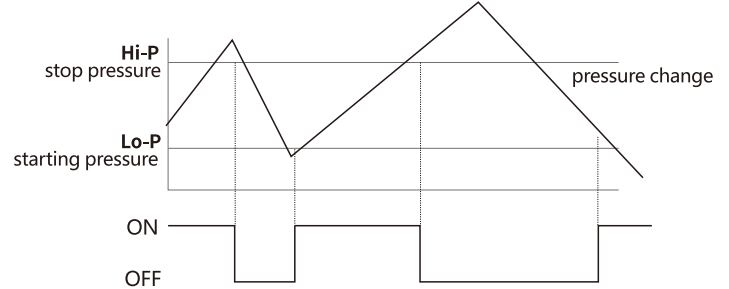
4. Clear fault

- When the fault alarms, press ⑨ clear fault

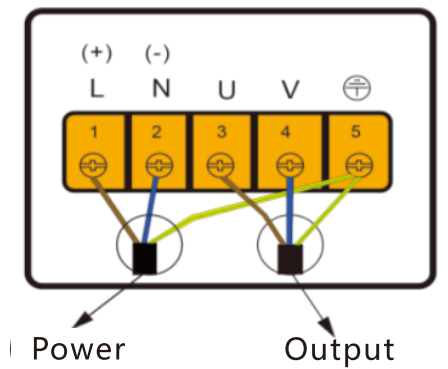
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WIRING AND LOAD WORKING

HOW THE LOAD WORKS



WIRING



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KEY DESCRIPTION AND SIZE

FAULT DESCRIPTION

Code	Indicator light	Fault Cause	Description
A01	°	Dry running (determined by current)	1. When it is detected that the output current is less than 10% of the rated current for three consecutive times, it is determined as the fault 2. When a fault occurs, you can press the confirm button to clear the fault
	((°))		
A11	°	Dry running (determined by pressure)	1. When the pressure is continuously lower than the set dry running pressure and reaches the set time, it is determined as the fault. 2. Press the confirm key or the pressure is greater than the set minimum working pressure, the fault is cleared.
A02	°	Over current	1. When the over current occurs, the indicator light starts to flash. At this time, the controller will try to output again after it is turned off, the indicator light is always on, and after repeating it for 4 times, it is judged as an over current fault and the indicator light flashes rapidly. 2. Press the confirm key to clear the fault.
	((°))		
A04	((°))	fast cycle	1. This fault detection function can be turned off in the basic menu (rc0). 2. When the basic menu is set to rc1, a delay time will be added before the output. 3. When the basic menu is set to rc2, directly close the output. 4. Press the enter key to clear the fault
A05	°	sensor failure	

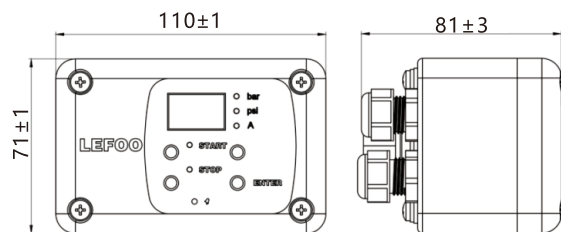
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LED FUNCTION

Indicator light	State	Description
Bar Psi	°	Indicates the current pressure unit, the controller has no output
	((°))	When the controller is working, there is an output
A	°	Indicates the current load current
	((°))	Rated current is being set
START STOP	°	Display the current start and stop pressure
	((°))	Setting start-stop pressure
	°	Core damage, over current fault confirmation dry pumping (low voltage judgment)
	((°))	Over current, fast cycle alarm, dry pumping fault (low current judgment)

Note: ° means always on, ((°)) means slow flashing, (((°))) means fast flashing

SIZE(mm)



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MENU SETTINGS

No	Type	Description	Factory settings
1	Bar Psi	pressure unit	Bar
2	rc0~rc2	Quick cycle alarm mode: rc0: Turn off the fast loop alarm rc1: open, only delay output after alarm rc2: turn on, turn off the output after the alarm	rc0
3	r01~r99	This parameter is only useful if the fast cycle alarm is on. For three consecutive cycles, each switching cycle time below this value is considered a fast cycle fault.	r03
4	ce0~ce1	When the actual output current is less than 10% of the rated current of the motor, it will be judged that there is no water in the current and it is in a dry pumping state. In this case the controller will protect. ce0: Not allowed to judge the dry pumping of the pump by the current. ce1: allow to judge the dry pumping of the	ce0

Press and hold ③+④ at the same time to enter the menu, short press ③ and ④ to modify the value or switch the menu, and short press ⑨ to confirm

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PARAMETERS AND SELECTION

PARAMETER

Range	Regular model 0~10bar	High pressure model 0~16bar
Overload pressure	1.5 times	
Accuracy	±1%F.S	
Operating temperature	- 10℃~50℃	
Storage temperature	- 20℃~60℃	
Medium Compatibility	Gas or liquid compatible with 1Cr18Ni9Ti, Nylon, Viton or Nitrile	
Output Mode	AC output, the output voltage is consistent with the supply voltage	
Power Supply	110~220VAC	
Protection Grade	IP55	
Pressure Connection	NPT1/4, G1/4 internal thread	
Pressure Form	Gauge pressure G	
load capacity	10A MAX	
Display method	3-digit digital tube	

SELECTION INSTRUCTIONS

Code and description		Remark
LFDS62	1	Regular
	2	High pressure
	G	G=G1/4(default)
	N	NPT1/4
LFDS62 - 1 - G		Selection example

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