

LEFOO

LFDS65 SERIES

INTELLIGENT PRESSURE CONTROLLER

Product operation manual

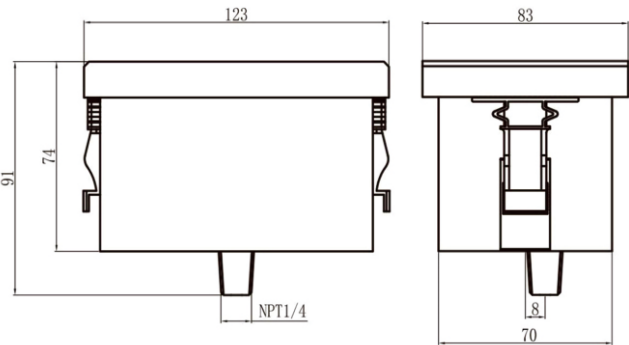


DESCRIPTION

Characterization

LFDS65(650/652) Series Intelligent pressure controller is an intelligent control instrument that integrating pressure measurement, display and control. The controller will monitor pressure in container in real time to control relay output ON/OFF automatically when pressure changes. It has the characteristics of simple operation, clear display, anti-vibration, high control precision and long lifetime.

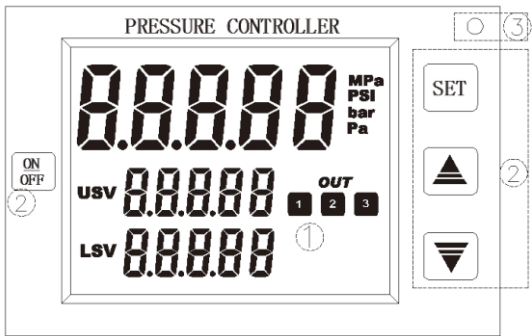
Dimension in: mm



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INTERFACE

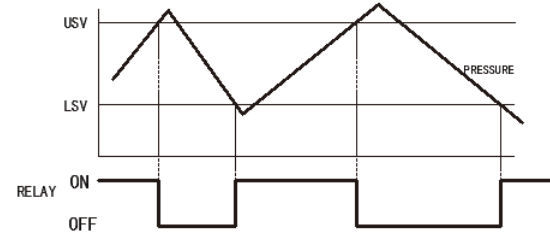
Display



Display screen:	<ul style="list-style-type: none">• Display current pressure• Displays a shell prompt when setting parameters.
Key area	<ul style="list-style-type: none">• SET: As the parameters determination of switching and setting. Long press SET to enter the Settings and stop running• Up: increase the number/Down: reduce the number• Pressing several keys at the same time to achieve functional of combining keys
Indicator lamp	Alert when system overvoltage, overload, leakage and other abnormal conditions.

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Relay Working Mode



The relay automatically loads ON/OFF is according to the set starting pressure (LHSV) and stopping pressure (USV).

Panel Operation

[1] Adjust starting pressure and stopping pressure

Press **SET** to poll and adjust stopping pressure (USV) and starting pressure (LSV). Absolute stopping pressure > Absolute starting pressure.

USV

-0.80

Press **SET** to adjust USV. Press **▲▼** to adjust USV base value, Long press for quick adjustment.

LSV

-0.50

Pressed **SET** once again to adjust LSV Press **▲▼** to adjust LSV base value, Long press for quick adjustment.

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OPERATION METHOD

[2] Zero function

Zero function refers to the function of forcing the pressure value to be displayed as "0" when the pressure hole is under atmospheric pressure



[3] Menu Function

Press and hold **SET** button for 2 seconds into menu function, the instruction is bellowing:

Symbol	How to operate	Instruction
F1 Unit switching	Press ▲▼ or SET select MPa, PSI, Bar, Press SET Enter F2	Can chose Mpa, PSI or kgf/cm²
F2 Protection function	Press ▲▼ or SET select "P on" or "P oFF" press SET enter F3	"P on"Enable protect "P oFF"Disable protect
F3 Operation function selection	Press ▲▼ or SET select "H on" or "HoFF" press SET confirm	"H on": automatic start while power on "HoFF": manual start while power on(default) This function is only available for the version with the start button

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PARAMETERS

Specifications

Item	Model	Vacuum (negative pressure)	Positive pressure
Pressure range		-101~0Kpa	0~2MPa
Pressure resistance		1.5 times	
Applicable fluids		Non-corrosive gas	Gas or liquid compatible with 1Cr18Ni9Ti, copper, fluorine rubber or nitrile rubber
Display Mode		LCD	
Measurement method		Gauge pressure	
Rated Working Voltage		110/220VAC	
Output method		Relay switch output/AC output	
load capacity		Maximum 10A	
Mounting interface		NPT1/4, R1/4, G1/4 optional	
Precision		±1%F.S	
Storage temperature		-40-85℃	
Operation temperature		-10-50℃	

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EXCEPTIONS AND CAUTIONS

Abnormal Indication Management

Abnormal description	Abnormal indication	Abnormal details	Solution
Residual pressure error	Err1	When calibrating zero Excessive pressure	When calibrating zero, the pressure orifice pressure should be atmospheric
Abnormal set pressure	UP	Setting has reach the upper limit	Adjusting the USV value
	DOWN	Setting reaches lower limit or stop pressure Below start pressure	Adjusting the value of LSV
Excessive pressure	FULL	Out of Sensor range	Reduced pressure
Over-pressurization	Indicator light Always on (Note 1)	Pressure greater than USV	Reduced pressure
Brown-out protection	Indicator light Always on (Note 2)	Lack of pressure, air leakage and other malfunctions	Check air line sealing or load operation

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Note 1: The controller will continue to run for about 1 second before OFF when it detects that the pressure is higher than the USV, the pressure will then be slightly higher than the USV, so the indicator light will be on. If it stays on for a long time please pay attention to check the device.

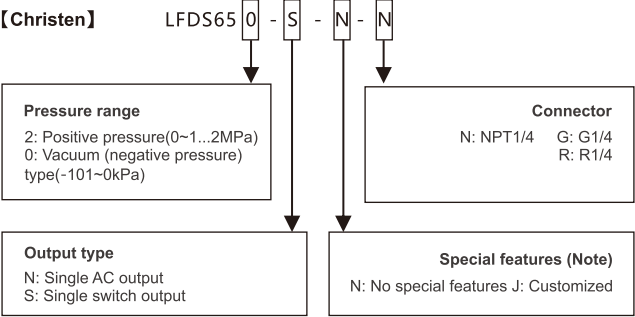
Note 2: If the protection function is on, after the relay closes, if the controller detects no change in pressure, it willOFF after 5 minutes and the indicator light blinks and the controller stops running, after troubleshooting. Press **SET** to resume operation.

Precautionary

- This product is developed and manufactured for the purpose of working in industrial environment.
- In order to ensure long-term and in good condition using of the product, the air piping needs to add air filter.
- Please use it within the rated voltage range. Do not make the pressure exceed the proof value, otherwise it may damage the product and safety.
- Please make sure the power is off when connect the wire. Faulty wiring may cause malfunction or personal safety.
- If the controller starts frequently, please check the difference between USV and LSV and adjust it accordingly
- Please do not disassemble the device without permission because of the high voltage inside, only professional staff is permitted to repair.

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Model Selection



Wiring Mode (rear view)

