

# JLD 5740 AC/DC Ammeter

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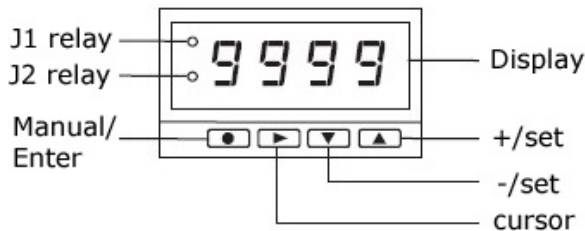
## Features

- Support DC : 5A, 1A, 100mA, 75mV(expansion)
- Support AC: 5A, 1A, 100mA
- “Zero”, ”Full scale”, “Decimal” can be set arbitrary
- Range: -1999 ~ 9999
- 3 level filtration programmable
- 0-20mA Current output (optional)

## 1) Specification

- Operating voltage: DC 9~30V, 2Watt
- DC Input Range: -1999~9999 (with DC Shunt)
- AC Input Range: 0~9999 (with ratio transformer)
- Accuracy: DC 0.8%, AC 1.0%
- Frequency response: 40~400Hz
- Overload: “EEEE” or “-EEE”
- LED Display: Power (0.56”)
- Temperature: 0~ +50°C
- Humidity: <<85% RH
- Relay handling: AC220V/3A
- Relay Life Span: 10<sup>5</sup>
- Trans-current accuracy: 0.8%
- Dimension: 79\*43\*58(mm), Mounting hole: 76\*39.5(mm)

## 2) Panel



## 3) Setting

(a) Input type setting. Password: 0089

Signal Type	Co de	Input Range	Remark
DC	0	-1~5A	*5
	1	-0.2~1A	
	2	-20~100mA	
	3	15~75mV	
AC	4	0~5A	
	5	0~1A	
	6	0~100mA	
	7	N/A	
Current Output (optional)	8	4~20mA	
	9	0~20mA	
	10	0~10mA	

- Press to enter programming mode
- Input Password using , ,
- Press , to set parameters
- Press to save change



(b) Parameters setting. Password: 0036

Symbol	Name	Description	Range	Default	Remark
<i>PvL</i>	PvL	Zero	-19999~9999	0	*1
<i>PvH</i>	PvH	Full Scale	-1999~9999	500	*2
<i>dot</i>	dot	Decimal	0~3	1	*3
<i>Filt</i>	Filt	Filtration	0~3	0	*4
<i>End</i>	End				

- \*1: Zero(PvL) To correct the meter from offset. Show “0000”
- \*2. Full scale (PvH): Display for max input.
- \*3. Decimal point position: Can be set arbitrary
- \*4. Digital filtration: Use it if reading is fluctuate caused by noise
- \*5. Only DC can display “-“ and up to 20% of the full scale value (example: full scale set to DC 500A and the meter is capable to display from -100A ~ 500A)

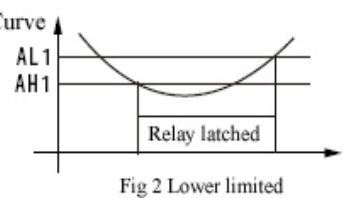
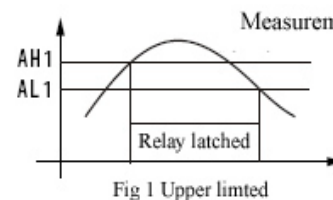
(c) Alarm (J1,J2) setting. Password “0001”)

Symbol	Name	Description	Range	Default
<i>AH1</i>	AH1	Relay J1 Latched	-19999~9999	10.0
<i>AL1</i>	AL1	Relay J1 Unlatched	-19999~9999	20.0
<i>AH2</i>	AH2	Relay J2 Latched	-19999~9999	30.0
<i>AL2</i>	AL2	Relay J2 Unlatched	-19999~9999	40.0
<i>End</i>	End	End		

AH1 & AH2 are the latched value, where AL1 & AL2 unlatched value

1. Set AH1=AL1(AH2=AL2), relay disable
2. Set AH1>AL1(AH2>AL2), when measured value  $\geq$  AH1, the relay will latch; when AL1  $\geq$  measured value, relay unlatched. This is for ‘upper limited’ configuration. See Fig 1.

Set AH1<AL1(AH2<AL2), when AH1  $\geq$  measured value, the relay will latch; when measured value  $\geq$  AH1, the relay unlatched. This is for the “lower limited” configuration.



(d) Transmission Output. Password 0042

(note: this function does not apply to all model. It's optional)

1) Table of transmission parameters

Symbol	Name	Definition	Range	Default
<i>o b t y</i>	obty	Output mode	0-20/4-20	4-20
<i>o b L</i>	obL	Output(lower)	0~9999	000.0
<i>o b H</i>	obH	Output(upper)	0~9999	500.0
<i>E n d</i>	End	End of setting		

2) Procedures of setting up Transmission is similar to the measurement setup

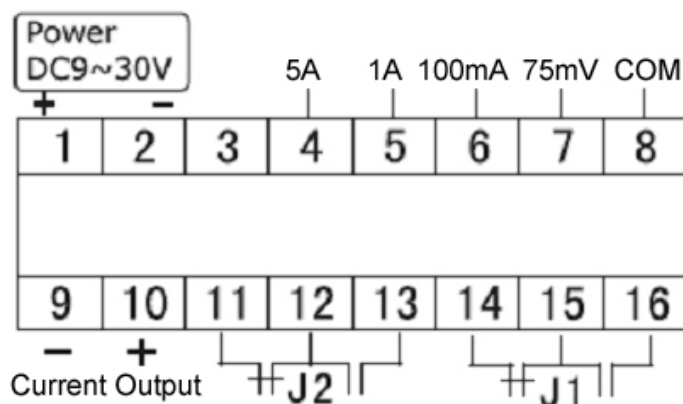
3) Parameters definition:

\*8 Transmission mode(obty): Output selection either in 0-20mA or 4-20mA

\*9 Transmission lower limit(obL): output is either in 0mA or 4mA

\*10 Transmission upper limit(obH): output is 20mA. Resolution varies depends on the obH setting. The smaller value of obH, the lower the resolution is. To set the decimal point, press  $\odot$  or  $\oslash$  for W or KW selection

Model: 5740



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## Examples

### Case 1: AC

Requirement: Range AC 0-500A

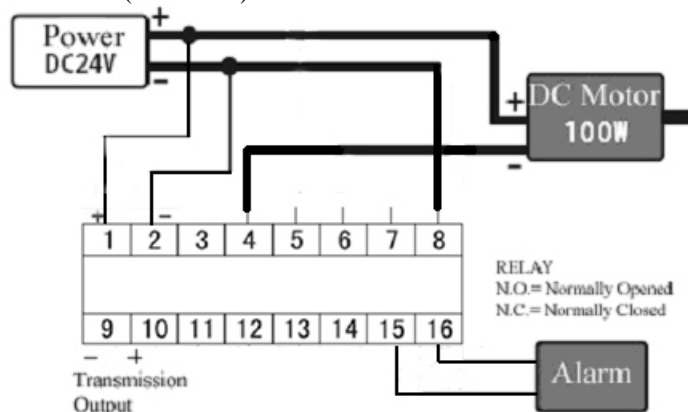
Upper Alarm: 400A

Lower Alarm: 360A.

Current output: 4-20mA (0-500A)

1. Install a 500A:5A (100:1) transconductor (transformer) to terminal of #8 and #4 (COM & 5A)
2. Enter Password: 0089 and set P-Sn = 4 (0-5A)
3. Confirm and Exit
4. Enter Password: 0036 and set: PvL = 000.0 and PvH=500.0, dot=1 (display 0.0 ~ 500.0)
5. Confirm and Exit
6. Enter Password: 0001 and set the Alarms:
  - AH1=400.0A
  - AL1=399.7A
  - AH2=360.0A
  - AL2=360.3A
7. Confirm and Exit
8. Enter Password: 0042
9. Set obty = 4-20mA
10. Set obL = 0000
11. Set obH = 5000
12. Exit

### Case 2: DC (5A or less)



### Case 3: DC (over 5A and a 75mV Shunt is required)

