

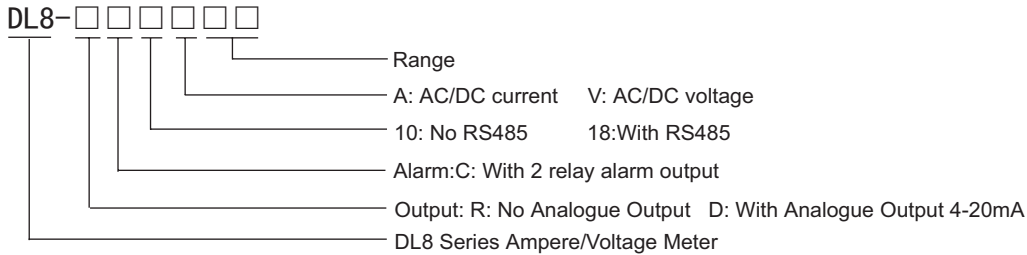
# DL8 AC/DC Ampere/Voltage Meter Instruction Manual



## Features

- ⊙ Accuracy: 0.5% F.S
- ⊙ AC/DC universal, for AC signal it measures true value (TRMS).
- ⊙ Different input channel has different range; Wide measuring range.
- ⊙ Two Hi/Lo setting alarm output
- ⊙ With Analog output 4-20mA
- ⊙ RS485 communication interface, Modbus RTU

## 1. Code Illustration



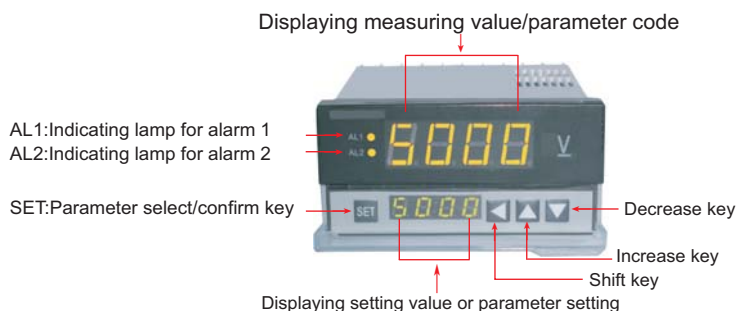
Code	Input channel and Range	Alarm	Analog output	Communication	Default channel and range
DL8-RC10V600	IN1: 0~10V; IN2: 0~100V; IN3: 0~600V	2 alarm	NO	NO	IN3: 600V
DL8-DC10V600	IN1: 0~10V; IN2: 0~100V; IN3: 0~600V	2 alarm	4-20mA	NO	
DL8-DC18V600	IN1: 0~10V; IN2: 0~100V; IN3: 0~600V	2 alarm	4-20mA	RS485	
DL8-RC10A1	IN1: 0~10mA; IN2: 0~100mA; IN3: 0~1000mA	2 alarm	NO	NO	IN3: 1000mA
DL8-DC10A1	IN1: 0~10mA; IN2: 0~100mA; IN3: 0~1000mA	2 alarm	4-20mA	NO	
DL8-DC18A1	IN1: 0~10mA; IN2: 0~100mA; IN3: 0~1000mA	2 alarm	4-20mA	RS485	
DL8-RC10A1000	IN1: AC 0~5A (above AC 5A can also be measured.)	2 alarm	NO	NO	IN1: 5A (Above 5A, a CT is needed.)
DL8-DC10A1000	IN1: AC 0~5A (above AC 5A can also be measured.)	2 alarm	4-20mA	NO	
DL8-DC18A1000	IN1: AC 0~5A (above AC 5A can also be measured.)	2 alarm	4-20mA	RS485	

- ⚠ ① When you use the meter, please pay attention that input channel should correspond to range, otherwise, the meter will be malfunction..  
 ② Input signal < 1.2 times of range.    ③ When measuring AC, available for 0~200Hz.

## 2. Technical Specification

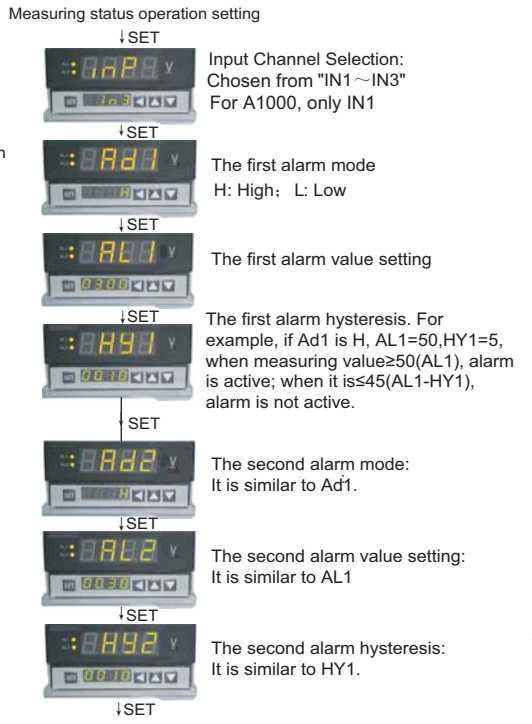
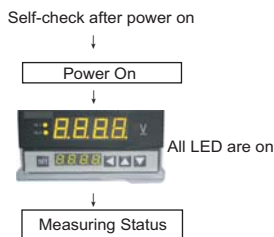
Power Supply	AC/DC 85~265V 50Hz/60Hz DC 24V( Need to be ordered )
Display range	0.001-9999 float decimal point display
Accuracy	±0.5%F.S±2digit (For AC the frequency should be under 100Hz)
Analog output	4~20mA, load capacity≤600Ω, accuracy:±0.5%F.S
Communication	Standard RS485 interface, Modbus RTU Protocol
Relay capacity	AC 250V/3A or DC 30V/5A
Dielectric Strength	AC 1800V, 0.5mA, 60S; DC 600V, 0.5mA, 60S.
Insulation Impedance	≥100MΩ/500V DC
Ambient Temperature and humidity	Temperature: 0-50℃    humidity: ≤85%RH
Sampling rate	2 times/S
Dimension(mm)	96W*48H*100L

## 3. Panel Illustration



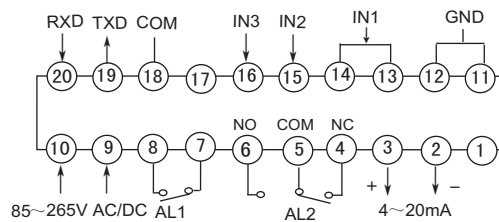
## 4. Operations

- ① The second row LED is defaulted to display range and input channel alternately after power on, press “<” only display range, press this key again the LED returns to default display.
- ② Press “SET” key > 3S in the measuring status, the meter shows the parameter menu.
- ③ When modifying setting value, press “△ / ▽” to change value; press “<” to shift decimal point, after modifying press “SET” to confirm and it shows the next menu. After setting, press “SET” > 3S to exit menu. If you don't operate it for a long time, it will exit menu automatically.



Number	Parameter code	Setting range	Factory value	Illumination
1	INP	IN1 ~ IN3	When the range is A1000, default is IN1, for other range, default is IN3.	AL, HY, Ct, PS, rH, rL have the same unit as the Range.
2	Ad1	H or L	H	
3	AL1	-1999 ~ 9999	90% of measuring range	
4	Hy1	-1999 ~ 9999	1.000	
5	Ad2	H or L	L	
6	AL2	-1999 ~ 9999	10% of measuring range	
7	Hy2	-1999 ~ 9999	1.000	
8	Ct	0 ~ 9999	1.000	
9	PS	-1999 ~ 9999	0.000	
10	rH	-1999 ~ 9999	maximum of the range	
11	rL	-1999 ~ 9999	minimum of the range	
12	Add	0 ~ 255	001	
13	bAd	4.8 or 9.6	9.6	
14	LCK	0 ~ 255	000	

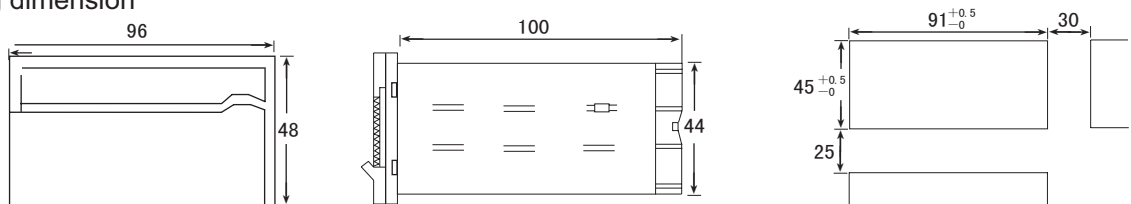
5. Connecting drawing



Connecting drawing for signal input directly (without CT)

Note: please subject to the diagram on the product if any changes.

6. Mounting dimension



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