DR Series Ampere/Voltage meters

Operation Guide

1.Characteristics

- Standard overall dimensions:48x96mm;96x96mm
- Speed at 2.5times/second
- Zero point adjustment(fixed decimal points)
- Display range ±1999
- 0.8inch ultra large red LED display

2.Technical parameters

Items ofproperties	Specific parameters
Power supply voltage	AC220V±15% 50/60Hz
Maximum display	1999 (AC display effective values)
Input mode	Single terminal input
A/D conversion	Dual integral
Sampling	Approx2.5times/second
Frequency range	40~200Hz(only for counterflow)
Overflow display	“1” or “-1”
Polarity display	Only display “-” ,only for counterflow
Display	0.8-inch red digital tube
Ambient temperature	0~50℃
Ambient humidity	35~85%RH
Power consumption	≤4VA
Voltage resistance	AC 1500V 1min
Insulating resistance	DC 500V ≥100MΩ
Weight	Approx 350g
Measurement Accuracy	0.5%F.S±2digit

3.Appendix forms

DR□ □—□ □— Measurement range

AV: AC voltage; AA: AC current; DV: DC voltage; DA: DC current

I: DC trandimission output; blank: no transmission output;

Overall dimension 6: 48HX96W; 9: 96HX96W;

DR series current and volt meter

4.Models and specification of instrments

[1]AC digital voltmeter

Model and specification	Measurement range	Resolution	Change inmtual inductor	Mesurement accuracy	Maximumlallowable input	Input impedence
DR6(9)-AV2	2V	1mV	Direct input	±0.5%F.S±2Digit	10V	5M Ω
DR6(9)-AV20	20V	10mV	Direct input	±0.5%F.S±2Digit	50V	5M Ω
DR6(9)-AV200	200V	100mV	Direct input	±0.5%F.S±2Digit	500V	5M Ω
DR6(9)-AV600	600V	1V	Direct input	±1%F.S±2Digit	1000V	5M Ω
DR6(9)-AV10K	10KV	10V	10KV:100V	±0.5%F.S±2Digit		5M Ω

[2]AC digital ampere meter

Model and specification	Measurement range	Resolution	Change inmtual inductor	Mesurement accuracy	Maximumlallowable input
DR6(9)-AA0.2	200mA	0.1mA	Direct input	±0.5%F.S±2Digit	500mA
DR6(9)-AA2	2A	1mA	Direct input	±0.5%F.S±2Digit	5A
DR6(9)-AA20	20A	10mA	20A: 5A	±0.5%F.S±2Digit	1.2F.S
DR6(9)-AA100	100A	0.1A	100A: 5A	±0.5%F.S±2Digit	1.2F.S
DR6(9)-AA200	200A	0.1A	200A: 5A	±0.5%F.S±2Digit	1.2F.S
DR6(9)-AA1000	1000A	1A	1000A: 5A	±0.5%F.S±2Digit	1.2F.S
DR6(9)-AA2000	2000A	1A	2000A: 5A	±0.5%F.S±2Digit	1.2F.S

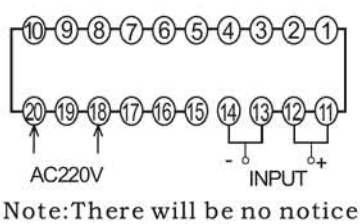
[3]DC digital voltmeter

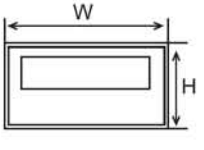
Model and specification	Measurement range	Resolution	Change inmtual inductor	Mesurement accuracy	Maximumlallowable input	Input impedence
DR6(9)-DV0.2	200mV	0.1mV	Direct input	±0.5%F.S±2Digit	10V	5M Ω
DR6(9)-DV2	2V	1mV	Direct input	±0.5%F.S±2Digit	100V	5M Ω
DR6(9)-DV20	20V	10mV	Direct input	±0.5%F.S±2Digit	500V	5M Ω
DR6(9)-DV200	200V	100mV	Direct input	±0.5%F.S±2Digit	750V	5M Ω
DR6(9)-DV500	500V	1V	Direct input	±1%F.S±2Digit	800V	5M Ω

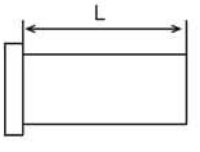
[4]DC digital ampere meter

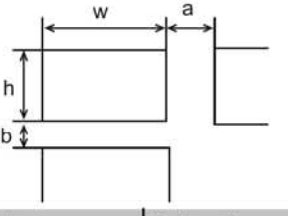
Model and specification	Measurement range	Resolution	Change inmtual inductor	Mesurement accuracy	Maximumlallowable input	Input impedence
DR6(9)-DA0.0002	0.2mA	0.1μA	Direct input	±0.5%F.S±2Digit	10mA	1KΩ
DR6(9)-DA0.002	2mA	1μA	Direct input	±0.5%F.S±2Digit	100mA	100Ω
DR6(9)-DA0.02	20mA	10μA	Direct input	±0.5%F.S±2Digit	500mA	10Ω
DR6(9)-DA0.2	200mA	100μA	Direct input	±0.5%F.S±2Digit	1A	1Ω
DR6(9)-DA2	2A	1mA	Direct input	±0.5%F.S±2Digit	5A	0.1Ω
DR6(9)-DA20	20A	10mA	20A:75mV	±0.5%F.S±2Digit	1.5F.S	5M Ω
DR6(9)-DA100	100A	100mA	100A:75mV	±1%F.S±2Digit	1.5F.S	5M Ω
DR6(9)-DA200	200A	100mA	200A:75mV	±0.5%F.S±2Digit	1.5F.S	5M Ω
DR6(9)-DA1000	1000A	1A	1000A:75mV	±0.5%F.S±2Digit	1.5F.S	5M Ω
DR6(9)-DA2000	2000A	1A	2000A:75mV	±0.5%F.S±2Digit	1.5F.S	5M Ω

5.Meter wiring and panel cutout







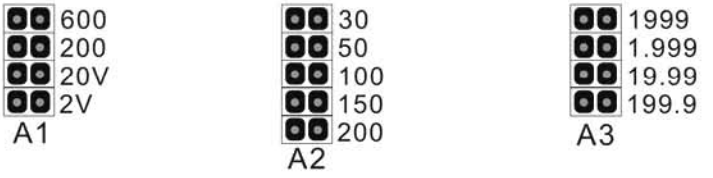


Note:There will be no notice of any change in the wiring of instruments.Please follow the circuity on the actual meters for wiring.

Model	Panel size H×W	Shell size h×w×L	Boring dimension a×b
DR6	48×96	45×91×90	50×25
DR9	96×96	91×91×90	50×50

6.Slip stitch inside of Meter and changing illustration

◈There are total three groups , as following :



(Voltage input range to selectslip stitch) (Ampere input range toselect slip stitch) (Decimal input range to select slip stitch)

◈Different specifications shows different position of slip stitch, as following :

[1]AC digital voltmeter

Model and specification	Measurement range	A1 Slip stitch	A2 Slip stitch	A3 Slip stitch
DR6(9)-AV2	2V	2V	200	1.999
DR6(9)-AV20	20V	20V	200	19.99
DR6(9)-AV200	200V	200	200	199.9
DR6(9)-AV600	600V	600	200	1999
DR6(9)-AV10K	10KV	200	200	19.99

[2]AC digital ampere meter

Model and specification	Measurement range	A1 Slip stitch	A2 Slip stitch	A3 Slip stitch
DR6(9)-AA0.2	200mA	2V	200	199.9
DR6(9)-AA2	2A	2V	200	1.999
DR6(9)-AA20	20A	2V	200	19.99
DR6(9)-AA100	100A	2V	100	199.9
DR6(9)-AA200	200A	2V	200	199.9
DR6(9)-AA1000	1000A	2V	100	1999
DR6(9)-AA2000	2000A	2V	200	1999

[3]DC digital voltmeter

Model and specification	Measurement range	A1 Slip stitch	A2 Slip stitch	A3 Slip stitch
DR6(9)-DV2	2V	2V	200	1.999
DR6(9)-DV20	20V	20V	200	19.99
DR6(9)-DV200	200V	200	200	199.9
DR6(9)-DV500	500V	600	200	1999

[4]DC digital ampere meter

Model and specification	Measurement range	A1 Slip stitch	A2 Slip stitch	A3 Slip stitch
DR6(9)-DA0.0002	0.2mA	2V	200	199.9
DR6(9)-DA0.002	2mA	2V	200	1.999
DR6(9)-DA0.02	20mA	2V	200	19.99
DR6(9)-DA0.2	200mA	2V	200	199.9
DR6(9)-DA2	2A	2V	200	1.999

◈ Note:

1, Make differences between Ampere meter and Voltage meter during operation . they can't make the same functions

2, there is measurement error exists after changing meter, but you can avoid it to adjust ZR as zero; FS as full scale .

3, please avoid to change meter but for special technology man or some special status .