

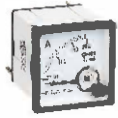


Catalogue

www.npower.com.vn

Tài liệu được tổng hợp bởi đội ngũ kỹ thuật của **NPOWER** Bản quyền nội dung thuộc về công ty **CHINT Global**
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Pointer analog meter



NP48, NP72, NP80B, NP96 Series
Pointer analog meter

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42,6 Series
Pointer analog meter

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44,59 Series
Pointer analog meter

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85, 69 Series
Pointer analog meter

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62T Series
Pointer analog meter

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NP96-MD/2MD-A
NP72-MD/2MD-A
Maximum demand meter

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Attachment

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Transportation and shipping area



Aeronautics and astronautics area



Teaching scientific research area



Series of electrical controlled equipment area



Main structure and features

Pointer analog meter is suitable for measuring the electrical parameter, including current, voltage, power, frequency and power factor in the DC electrical circuit and AC electrical circuit, which directly affected into the analogue indicating electrical measuring device. With the advantages of the direct indication of the variation trend of the measured electrical quantity and convenient reading, it is mainly applied into the electrical equipment of industrial and mining area, new energy area, petrochemical area, transportation and shipping area, aeronautics and astronautics area and power transmission and distribution area, featured with simple construction, easy installation, clean printing, aesthetic and generous outlook and wide vision.

Main technical parameter

Assembly Position:

The instrument is suitable for vertically mounted, it is permitted to incline $\pm 5^\circ$, unless specified.

Overshoot and damping time:

Overshoot usually means the instrument with deflection angle less than 180° , and the overshoot not exceed the 20% of the scale length. For other instruments, not exceed 25%. Damping time $\leq 4s$, means measurement for the final indication of the indication device at the 2/3 of the scale forced by sudden power and the deviated final static location of the indication device not exceed 1.5% of the scale at any time after the 4s.

Storage temperature range: $-40^\circ\text{C} \sim +70^\circ\text{C}$

Working environment:

The reference ambient temperature is $23^\circ\text{C} \pm 2^\circ\text{C}$ and the relative humidity is 25%~85%. The working environment temperature is $-20^\circ\text{C} \sim +40^\circ\text{C}$ and the relative humidity is not exceeding 95%, and no breakdown if there is no ash and corrosive gas in the air.

AC voltage test:

No electrical breakdown and flash over after frequency of 50Hz sine wave alternative voltage of 2kV lasted 1 min.

Isolation strength: $> 5\text{M}\Omega/\text{DC}500\text{V}$

Zero adjusting device:

Except for the non mechanism zero-reading instrument, all of other instruments are equipped with front zero adjusting device, used for adjusting the mechanism zero settings for the instrument.

Overload current meter:

The overload multiples normally is one and two times, and we can provide special offer for 1.2 times, 2 times, 3 times, 4 times, 5 times and 6 times overload according to user's need. Its function is to indicate the short-time general value of the current $>$ rated current, to protect the instrument, for instance, the start current when the electro motor starts.

NP48,NP72,NP80B,NP96 Series Pointer Analog Meter



Main structure and features

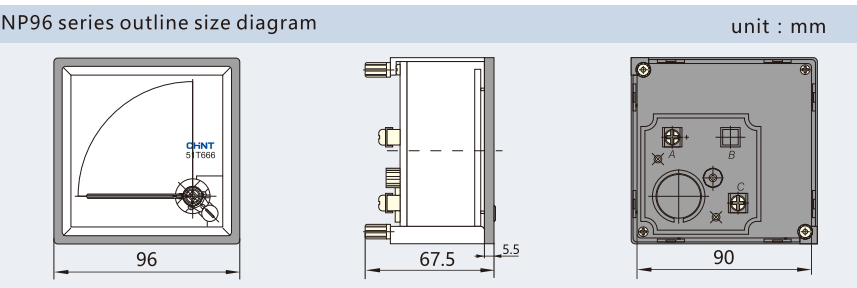
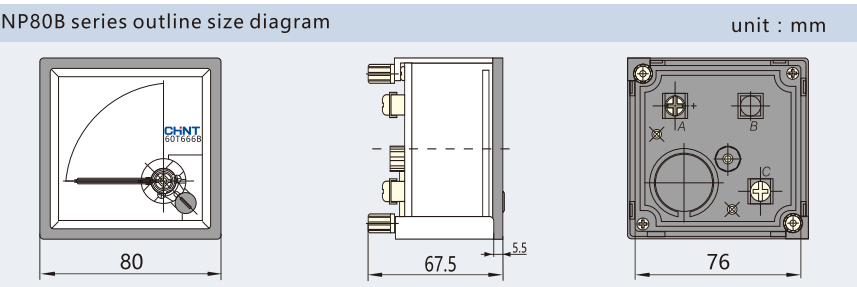
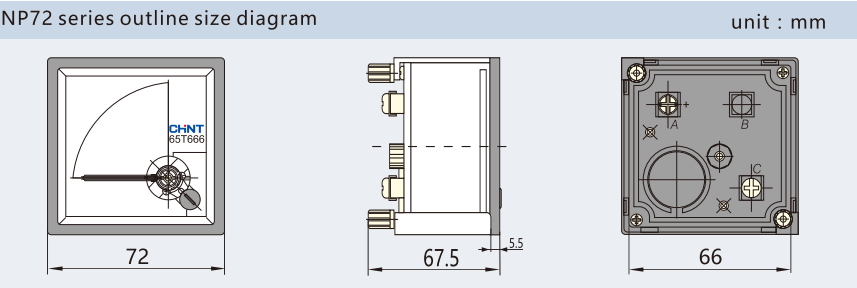
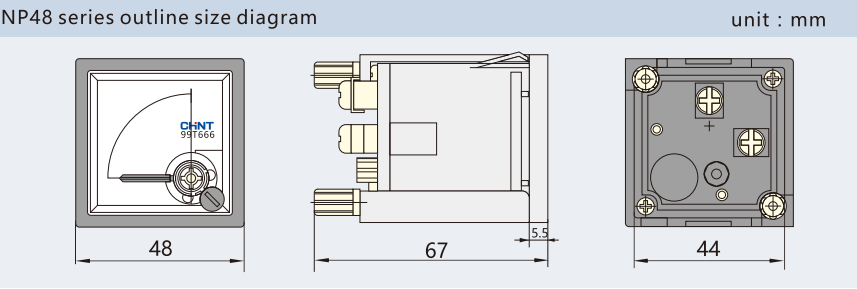
Np48, NP72, NP80B, NP96 series square instrument is electronic magnetic type, adopting rejecting structure. The instrument consists of measuring mechanism, and indication device, with fire-proof type cover, ABS constructure plastic, safe measuring terminal, high-efficient wiring mode. Besides, it also adopts printed dia plate and crystal glass cover, making it overallly aesthetic, generous and extensive outlook.

Main technical parameter

Item	Specification	Measuring Range	Accuracy Grade
DC Volt meter	NP 48-V NP 72-V NP 80B-V NP 96-V	1V~750V(direct connect) 450V~450kV/1mA or 5mA (via external valued resistor)	Class 1.5
DC Current meter	NP 48-A NP 72-A NP 80B-A NP 96-A	50 μ A~20A(direct connect) 20A~10kA/75mV or 60mV (via external current transformer)	Class 1.5
AC Volt meter	NP 48-V NP 72-V NP 80B-V NP 96-V	15V~600V (direct connect) , 380V~450kV /100V (via voltage transformer)	Class 1.5
AC Current meter	NP 48-A NP 72-A NP 80B-A NP 96-A	0.1A~50A(direct connect) 5A~10kA/5A or 1A (via current transformer)	Class 1.5
Frequency meter	NP 48-Hz NP 72-Hz NP 80B-Hz NP 96-Hz	45~55Hz, 45~65Hz, 55~65Hz; Rated voltage : 100V 220V 380V	Class 1.0
Power feter	NP 48-W/var NP 72-W/var NP 80B-W/var NP 96-W/var	100V, 220V, 380V , 380V~380kV/100V 5A, 5A~10kA/5A	Class 2.5
Power factor Meter	NP 48-cos ϕ NP 72-cos ϕ NP 80B-cos ϕ NP 96-cos ϕ	0.5C~1~0.5L 100V/5A, 220V/5A, 380V/5A	Class 2.5

Note: NP48 is Class 2.5, while for NP72, NP80B and NP96 current meter: above 30A: Class 2.5; below 30A and */5A: Class 1.5

NP48,NP72,NP80B,NP96 Series Pointer Analog Meter



Model No.	Outline size	Hole size (L×H)
NP 48 NP 48-DC NP 48-W/var /Hz/cosφ	48×67×48	45×45
NP72 NP72-DC NP72-Hz/cosφ	72×67.5×72	68×68
NP80B NP80B-DC NP80B-W/var /Hz/cosφ	80×67.5×80	76×76
NP96 NP96-DC NP96-W/var/cosφ	96×67.5×96	92×92

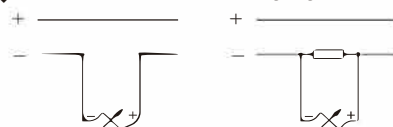
Note:The outline size for NP72-W/var: 72×72×108.5

NP48, NP72, NP80B, NP96 Series Pointer Analog Meter



Wiring mode

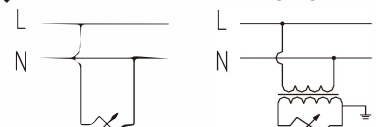
◆ (NP48, NP72, NP80B, NP96) - A.V wiring diagram



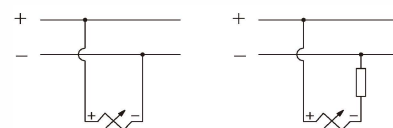
current meter(direct connect)

current meter(via current transformer)

◆ (NP48, NP72, NP80B, NP96) - A.V wiring diagram

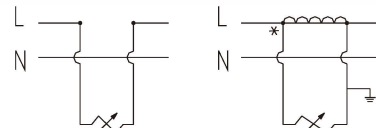


voltage meter(direct connect) voltage meter(via voltage transformer)



voltage meter(direct connect)

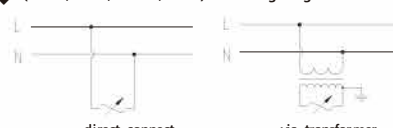
voltage meter(via external resistor)



current meter(direct connect)

via current transformer

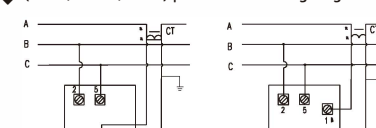
◆ (NP48, NP72, NP80B, NP96) - Hz wiring diagram



direct connect

via transformer

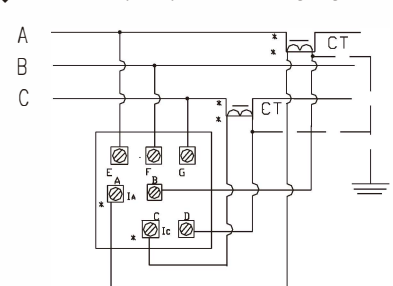
◆ (NP72, NP80B, NP96) power factor wiring diagram



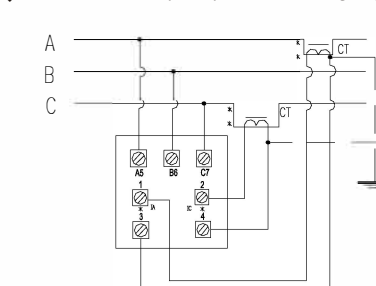
NP96 power factor

NP72, NP80B power factor

◆ NP96 three phase power meter wiring diagram



◆ NP72, NP80B three phase power meter wiring diagram



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42,6 Series Pointer Analog Meter



Main structure and features

42L6,6L2 series instrument consists of measuring circuit, measuring mechanism and indicating device, adopting magneto electric type inner magnetic mechanism with fireproof cover, printed dial plate and crystal glass cover, which makes it aesthetic, generous and extensive outlook.

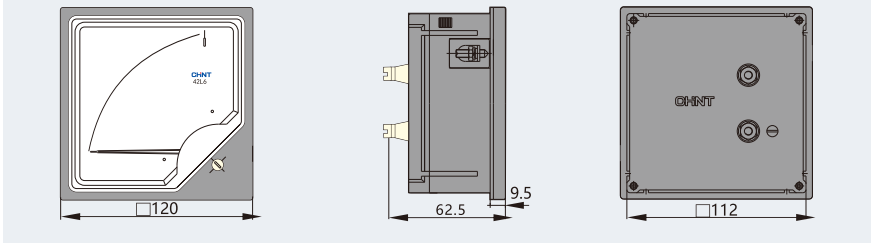
Main technical parameter

Input mode	Type
AC	Voltage meter, current meter, active power meter, reactive power meter, frequency meter, power factor meter
DC	Voltage meter, current meter

Item	Specification	Measuring Range	Accuracy Grade
DC Volt meter	42C3-V 6C2-V	1V~750V(direct connect) 450V~450kV/1mA or 5mA	Class 1.5
DC Current meter	42C3-A 6C2-A	50μA~20A(direct) 20A~10kA/75mV or 60mV (via external current transformer)	Class 1.5
AC Volt meter	42L6-V 6L2-V	15V~600V (direct connect) , 380V~450kV /100V (via voltage transformer)	Class 1.5
AC Current meter	42L6-A 6L2-A	0.1A~50A(direct connect) 5A~10kA/5A or 1A	Class 1.5
Frequency meter	42L6-Hz 6L2-Hz	45~55Hz,45~65Hz,55~65Hz, Rated voltage : 100V 220V 380V	Class 1.0
Power meter	42L6-W/var 6L2-W/var	100V,220V,380V,380V~380kV/100V 5A, 5A~10kA/5A	Class 2.5
Power factor Meter	42L6-cosφ 6L2-cosφ	0.5C~1~0.5L 100V/5A, 220V/5A, 380V/5A	Class 2.5

42L6,42C3 outline size diagram

unit : mm

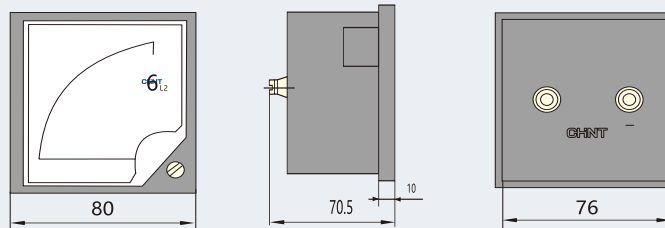


42,6 Series Pointer Analog Meter



6L2,6C2 outline size diagram

unit : mm

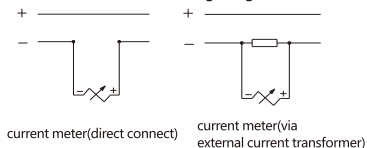


Model No.	Outline size	Hole size (L×H)
42L6 42C3	120×120×76	116×116
6L2 6C2	80×80×70.5	77×77

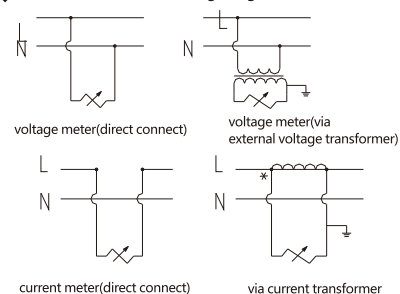
Note : 6L2-W/var outline size:80×80×103,6L2-cosφoutline size:80×80×85,
42L6-W/var outline size: 120×120×88.5.

Wiring mode

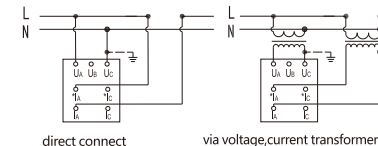
◆ 42C3-A.V,6C2-A.V wiring diagram



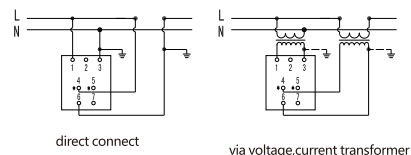
◆ 42L6-A.V,6L2-A.V wiring diagram



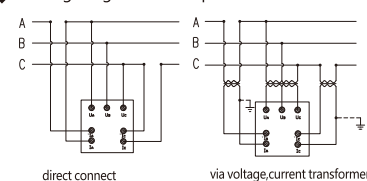
◆ 6L2 single phase power meter wiring diagram



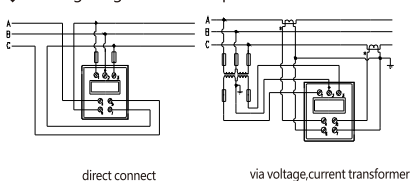
◆ 42L6 single phase power meter wiring diagram



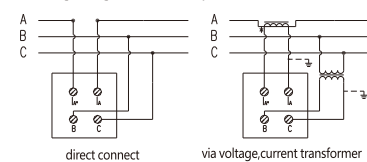
◆ Wiring diagram of 6L2 power meters



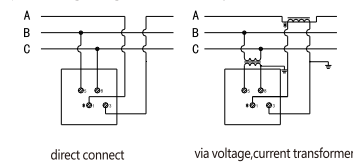
◆ Wiring diagram of 42L6 power meters



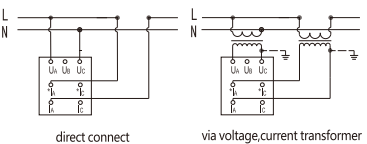
◆ Wiring diagram of 6L2 power factor meters



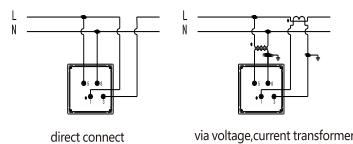
◆ Wiring diagram of 42L6 power factor meters



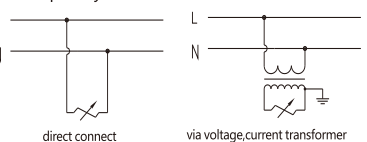
◆ Wiring diagram of single 6L2 power factor meters



◆ Wiring diagram of single 42L6 power factor meters



◆ Wiring diagram of 6L2-Hz, 42L6-Hz frequency meters



44,59 Series Pointer Analog Meter



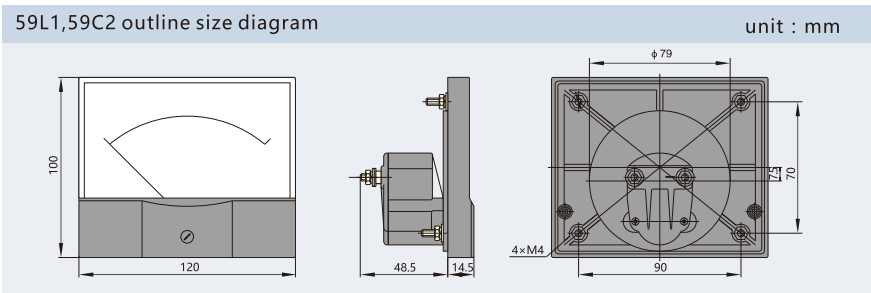
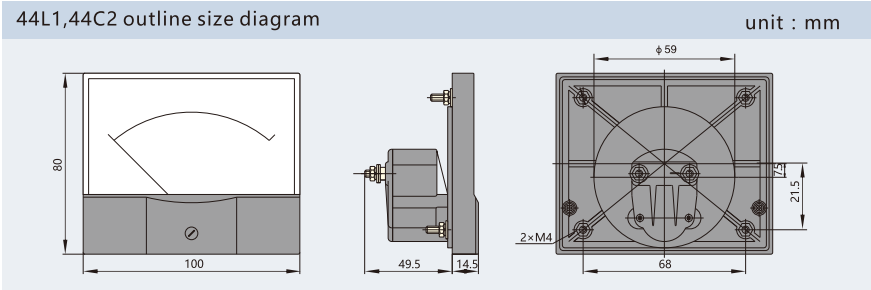
Main structure and features

44, 59 series instrument consists of measuring circuit, measuring mechanism and indicating device, adopting magneto-electric type inner magnetic mechanism with plastic cover, crystal glass windows, and printed dial plate, which makes it aesthetic, generous and extensive outlook.

Main technical parameter

Input mode	Type
AC	Voltage meter, current meter, active power meter, reactive power meter, frequency meter, power factor meter
DC	Voltage meter, current meter

Item	Specification	Measuring Range	Accuracy Grade
DC Volt meter	44C2-V 59C2-V	1V~750V(direct connect), 450V~450kV/1mA or 5mA (via external valued resistor)	Class 1.5
DC Current meter	44C2-A 59C2-A	50μA~20A(direct connect) 20A~10kA/75mV or 60mV (via external current transformer)	Class 1.5
AC Volt meter	44L1-V 59L1-V	15V~600V (direct connect) , 380V~450kV /100V (via voltage transformer)	Class 1.5
AC Current meter	44L1-A 59L1-A	0.1A~50A(direct connect) 5A~10kA/5A or 1A (via current transformer)	Class 1.5
Frequency meter	44L1-Hz 59L1-Hz	45~55Hz,45~65Hz,55~65Hz; Rated Voltage : 100V 220V 380V	Class 1.0
Power feter	44L1-W/var 59L1-W/var	100V,220V,380V,380V-380kV/100V 5A,5A-10kA/5A	Class 2.5
Power factor Meter	44L1-cosφ 59L1-cosφ	0.5C~1~0.5L 100V/5A, 220V/5A,380V/5A	Class 2.5

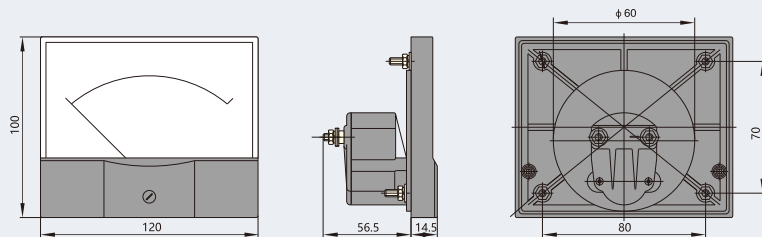


44,59 Series Pointer Analog Meter



59L1-Hz outline size diagram

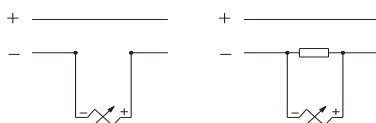
unit : mm



Model No.	Outline size	Hole size(Round)
44L1 44C2	100×80×64	Φ59
59L1 59C2	120×100×63	Φ79
59L1-Hz	120×71×100	Φ60

Wiring mode

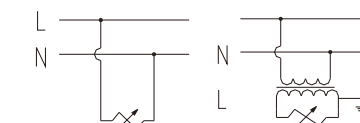
◆ 44C2-A.V,59C2-A.V wiring diagram



current meter(direct connect)

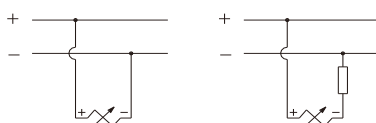
current meter(via current transformer)

◆ 44L1-A.V,59L1-A.V wiring diagram



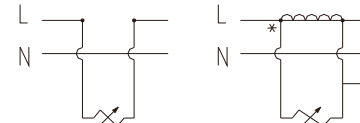
current meter(via current transformer)

voltage meter(via current transformer)



voltage meter(direct connect)

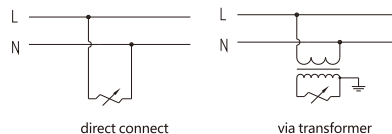
voltage meter(via external valued resistor)



current meter(direct connect)

current meter(via current transformer)

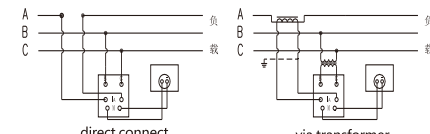
◆ 44L1-Hz,59L1-Hz wiring diagram



direct connect

via transformer

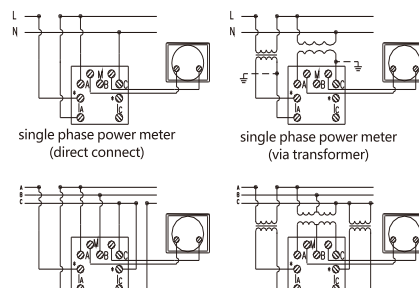
◆ 44L1,59L1 power factor wiring diagram



direct connect

via transformer

◆ 59L1 active and reactive power meter wiring diagram



single phase power meter
(direct connect)

single phase power meter
(via transformer)

three phase three wire power meter
(direct connect)

three phase three wire power meter
(direct connect)

Note: power meter and power factor meter is connected via external converter.

85, 69 Series Pointer Analog Meter



Main structure and features

85, 69 series instrument consists of measuring circuit,measuring mechanism and indicating device, adopting magneto-electric type inner magnetic mechanism with plastic cover, crystal glasses, and printed dial plate, which makes it aesthetic, generous and extensive outlook.

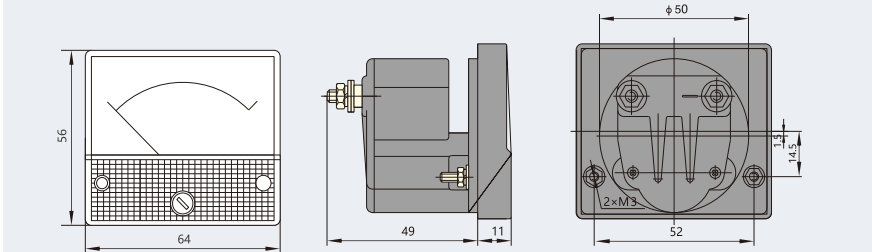
Main technical parameter

Input mode	Type
AC	Voltage meter, current meter, active power meter, reactive power meter, frequency meter, power factor meter
DC	Voltage meter, current meter

Item	Specification	Measuring Range	Accuracy Grade
DC Volt meter	85C1-V 85C17-V 69C9-V 69C13-V	1V~750V(direct connect) 450V~450kV/1mA or5mA (via external valued resistor)	Class 2.5
DC Current meter	85C1-A 85C17-A 69C9-A 69C13-A	50μA~20A (direct connect) 20A~10kA/75mV or 60mV (via external current transformer)	Class 2.5
AC Volt meter	85L1-V 85L17-V 69L9-V 69L17-V 69L13-V	15V~600V (direct connect) , 380V~450kV /100V (via voltage transformer)	Class 2.5
AC Current meter	85L1-A 85L17-A 69L9-A 69L17-A 69L13-A	0.1A~50A(direct connect) 5A~10kA/5A or 1A (via current transformer)	Class 2.5
Frequency meter	85L1-Hz 69L9-Hz 69L13-Hz	45~55Hz,45~65Hz,55~65Hz; Rated voltage : 100V 220V 380V	Class 1.0
Power feter	85L1-W/var 69L9-W/var	100V,220V,380V , 380V~380kV/100V 5A, 5A~10kA/5A	Class 2.5
Power factor Meter	85L1-cosφ 69L9-cosφ	0.5C~1~0.5L 100V/5A,220V/5A,380V/5A	Class 2.5

85L1, 85C1 outline size diagram

unit : mm

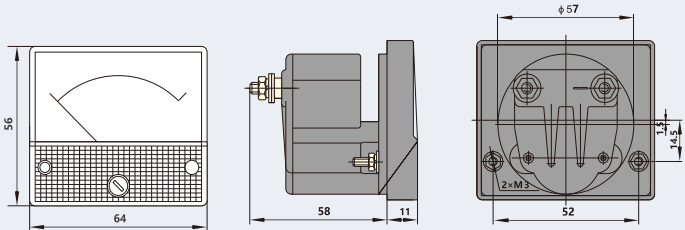


85, 69 Series Pointer Analog Meter



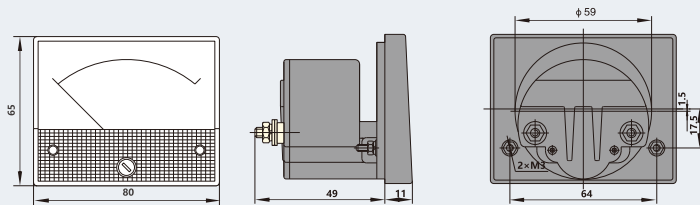
85L1-Hz outline size diagram

unit : mm



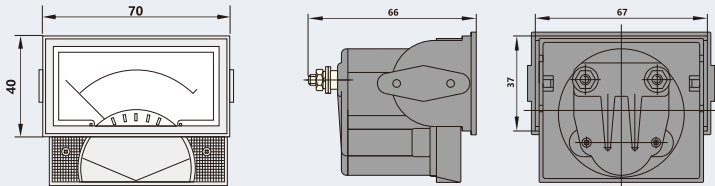
69L9,69C9 outline size diagram

unit : mm



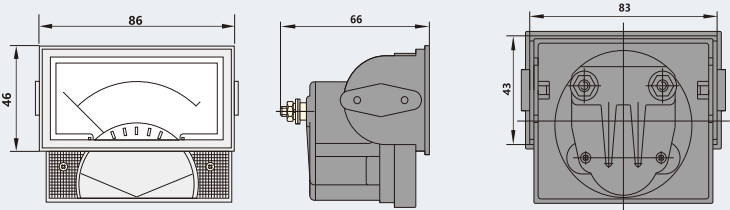
85L17,85C17 outline size diagram

unit : mm



69L17,69C17 outline size diagram

unit : mm



Model No.	Outline size	Hole size (L×H)
69L17 69C17	86×67×66	83×43
85L17 85C17	70×59×66	67×37

85, 69 Series Pointer Analog Meter



Model No.	Outline size	Hole size (Round)
85L1 85C1	64×56×60	Φ53(Big) Φ50(Small)
85L1-Hz	64×56×69	Φ57
69L9 69C9 69L13 69C13	80×65×60	Φ59

Wiring mode

◆ 85C1-A.V,69C9-A.V,69C1-A.V wiring diagram

current meter(direct connect) current meter(via external current transformer)

◆ 85L1-A.V,69L9-A.V,69L1-A.V wiring diagram

voltage meter(direct connect) voltage meter(via voltage transformer)

◆ 85L1-Hz,69L9-Hz,69L13-Hz wiring diagram

direct connect via transformer

◆ 85L1,69L9 power factor wiring diagram

direct connect via transformer

◆ 85L1,69L9 power meter wiring diagram

single phase power meter (direct connect) single phase power meter (via transformer)

three phase three wire power meter (direct connect) three phase three wire power meter (via transformer)

Note:power meter, power factor meter is connected via external converter.

62T Series Pointer Analog Meter



Main structure and features

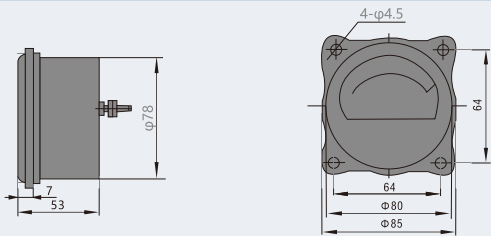
62T series instrument adopts pivot axle bearing balance spring mechanism. The balance spring consists of jewel axle, pivot, while moving part consists of system, pointer coil, fire-resistant type ABS cover, adopting round shape and crystal glasses window, making it aesthetic and generous.

Main technical parameter

Input mode	Type		
AC	Voltage meter, current meter, active power meter, reactive power meter, frequency meter, power factor meter		
Item	Specification	Measuring Range	Accuracy Grade
AC Volt meter	62T51-V	15V~600V(direct connect) 380V~450kV/100V (via voltage transformer)	Class 2.5
AC Current meter	62T51-A	250mA~50A(direct connect) 5A~10kA/5Aor 1A (via current transformer)	Class 2.5
Frequency meter	62T51-Hz	45~55Hz,45~65Hz,55~65Hz Rated voltage: 100V, 220V, 380V	Class 1.0

62T51 outline size diagram

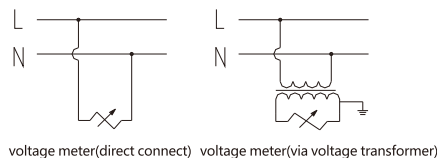
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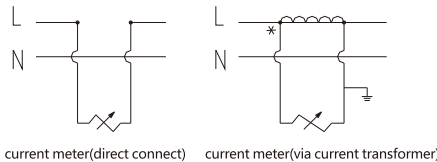
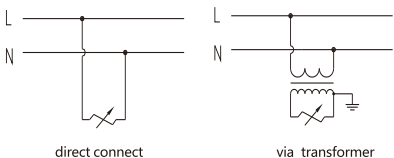
Model No.	Outline size	Hole size(Round)
62T51	82×66×82	Φ80

Wiring mode

◆ 62T51-A.V wiring diagram



◆ 62T51-Hz wiring diagram



NP96-MD/2MD-A , NP72-MD/2MD-A Maximum Demand Meter



Main structure and features

NP96-MD/2MD-A and NP72-MD/2MD-A maximum demand meter consists of single structure demand meter and double structure demand meter. Utilizing the heat/time character of the instrument. It can record the periodical average maximum current value in the electric load. It will indicate the maximum average circuit after 8 minutes or 15 minutes, red indicator stands for the maximum demand, and the maximum value can be zero reset by zero reset button. However, this button is sealed by the electricity department to prevent zero reset without authority.

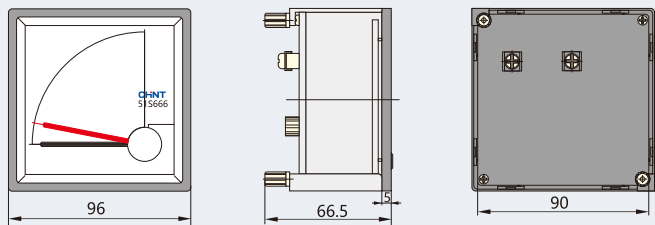
The maximum demand current meter adopts printed dial scale, crystal glasses cover, fire-proof plastic cover, making it clear, aesthetic and generous, suitable for measuring the demand periodical average maximum current value in various electric system, electric controlled users and kinds of electric equipment, to reach the goal of economization.

Main technical parameter

Model No.	Accuracy	Demand period	Current specification
NP96-MD/2MD-A NP72-MD/2MD-A	Class 3.0	8 min, 15min	1A, 5A

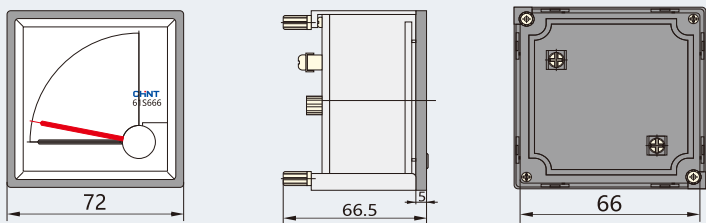
NP96-MD/2MD-A outline size diagram

unit : mm



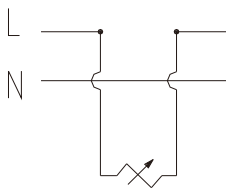
NP72-MD/2MD-A outline size diagram

unit : mm

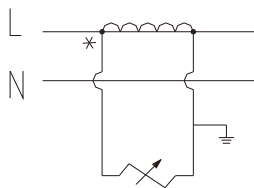


Model No.	Outline size	Hole size
NP96-MD/2MD-A	96×96×66.5	92×92
NP72-MD/2MD-A	72×72×66.5	68×68

Wiring mode



direct connect



via transformer

Attachment

Order sample

When clients place orders, please note the needed model no., specification and quantity. For meters that not specified, please write it in the blank or contact us for special offer.

For example:

Model No.: NP96	Spec: 5A	Qty:50pcs
Model No.:NP48	Spec: AC380V/100V	Qty:50pcs
Model No.: 42L6-Hz	Spec:45-65Hz, AC380V	Qty:20pcs
Model No.:42L6-W	Spec:AC380V, 400/5A (See sheet 1)	Qty:22pcs
Model No.:42L6-var	Spec: AC380V, 200/5A(See sheet 2)	Qty:22pcs
Model No.:44L1-cosφ	Spec:0.5C~1~0.5L, AC380V,5A	Qty:18pcs

Sheet 1: Active power indexing sheet

Via current transformer (current for second class is 5A)	Measuring range	Rated voltage										
		Direct connect			Via voltage transformer (voltage for second class is 100V)							
		100	220	380	3k	6k	10k	15k	35k	110k	220k	380k
5	kW	0.8	2	3	25	50	80	120	300	1	2	3
7.5	kW	1.2	3	5	40	80	120	200	500	1.5	3	5
10	kW	1.5	4	6	50	100	150	250	600	2	4	6
15	kW	2.5	6	10	80	150	250	400	1	3	6	10
20	kW	3	8	12	100	200	300	500	1.2	4	8	12
30	kW	5	12	20	150	300	500	800	2	6	12	20
40	kW	6	15	25	200	400	600	1	2.5	8	15	25
50	kW	8	20	30	300	500	800	1.2	3	10	20	30
75	kW	12	30	50	400	800	1.2	2	5	15	30	50
100	kW	15	40	60	500	1	1.5	2.5	6	20	40	60
150	kW	25	60	100	800	1.5	2.5	4	10	30	60	100
200	kW	30	80	120	1	2	3	5	12	40	80	120
300	kW	50	120	200	1.5	3	5	8	20	60	120	200
400	kW	60	150	250	2	4	6	10	25	80	150	250
600	kW	100	250	400	3	6	10	15	40	120	250	400
750	kW	120	300	500	4	8	12	20	50	150	300	500
800	kW	120	300	500	6	8	15	20	50	150	300	500
1k	kW	150	400	600	8	10	25	25	60	200	400	600
1.5k	kW	250	600	1	8	15	25	40	100	300	600	1000
2k	kW	300	800	1.2	10	20	30	50	120	400	800	1200
3k	kW	500	1.2	2	15	30	50	80	200	600	1200	2000
4k	kW	600	1.5	2.5	20	40	60	100	250	800	1500	2500
5k	kW	800	2	3	25	50	80	120	300	1000	2000	3000
6k	MW	1	2.5	4	30	60	100	150	400	1200	2500	4000
7.5k	MW	1.2	3	5	40	80	120	200	500	1500	3000	5000
10k	MW	1.5	4	6	50	100	150	250	600	2000	3500	6000

Via current transformer (current for second class is 5A)	Measuring range	Rated voltage										
		Direct connect			Via voltage transformer (voltage for second class is 100V)							
		100	220	380	3k	6k	10k	15k	35k	110k	220k	380k
5	kvar	0.6	1.5	2.5	20	40	60	100	250	800	1.5	2.5
7.5	kvar	1	2.5	4	30	60	100	150	400	1.2	2.5	4
10	kvar	1.2	3	5	40	80	120	200	500	1.5	3	5
15	kvar	2	5	8	60	120	200	300	800	2.5	5	8
20	kvar	2.5	6	10	80	150	250	400	1	3	6	10
30	kvar	4	10	15	120	250	400	600	1.5	5	10	15
40	kvar	5	12	20	150	300	500	800	2	6	12	20
50	kvar	6	15	25	200	400	600	1	2.5	8	15	25
75	kvar	10	25	40	300	600	1	1.5	4	12	25	40
100	kvar	12	30	50	400	800	1.2	2	5	15	30	50
150	kvar	20	50	80	600	1.2	2	2.5	8	25	50	80
200	kvar	25	60	100	800	1.5	2.5	4	10	30	60	100
300	kvar	40	100	150	1.2	2.5	4	5	15	50	100	150
400	kvar	50	120	200	1.5	3	5	8	20	60	120	200
600	kvar	80	200	300	2.5	5	8	10	30	100	200	300
750	kvar	100	250	400	3	6	10	15	40	120	250	400
800	kvar	100	250	400	3	6	10	20	40	120	250	400
1k	kvar	120	300	500	4	8	12	30	50	150	300	500
1.5k	kvar	200	500	800	6	12	20	40	80	250	500	800
2k	kvar	250	600	1	8	15	25	40	100	300	600	1000
3k	kvar	400	1	1.5	12	25	40	50	150	500	1000	1500
4k	kvar	500	1.2	2	15	30	50	80	200	600	1200	2000
5k	kvar	600	1.5	2.5	20	40	60	100	250	800	1500	2500
6k	kvar	800	2	3	25	50	80	120	300	1000	2000	3000
7.5k	Mvar	1	2.5	4	30	60	100	150	400	1200	2500	4000
10k	Mvar	1.2	3	5	40	80	120	200	500	1500	3000	5000

Attachment: packing information for every product

Model No.	Packing Quantity	Packing Measurement	Packing Weight
6L2-A.V	60sets	440X310X275	13kg
42L6-A.V	30sets	435X390X270	12kg
NP48-A.V	100sets	360X305X225	10kg
NP72-A.V	72sets	435X315X255	17.5kg
NP80B-A.V	60 sets	440X310X275	12kg
NP96-A.V	60 sets	510X295X315	21kg
69L17-A.V	100 sets	400X360X275	15kg
44L1-A.V	60 sets	435X325X280	17.5kg
59L1-A.V	60 sets	500X345X320	12kg
85L1-A.V	100 sets	350X345X250	10kg
NP96-MD/2MD-A	60 sets	510X295X315	20kg
NP72-MD/2MD-A	72 sets	435X315X255	17kg

Remarks: unnoted unit: mm



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