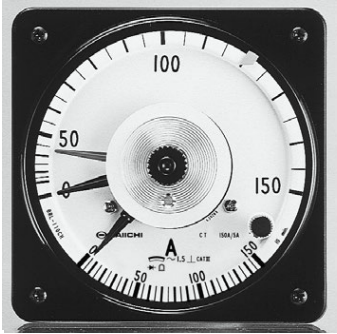


# MAXIMUM DEMAND AMMETER

## BRL - 110CH (Bimetallic Type)

### BRL-110CH

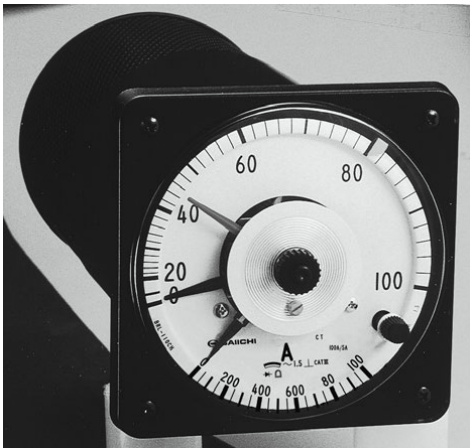


Recently, regarding bulk electric power consumer as factory and building, measurement of demand monitoring suddenly needed to readjustment in the economy loading exploitation and installation capacity attended by saving of energy.

Our company develops BRL-110CH to meet the needs, measurement the par current (demand current) within the time (time limit) which determination is in advance by bimetallic system thermal type and it can take hold of max. demand current value by record pointer.

When internal instant meter and alarm output contact by option, they can display the alarm signal if measurement of instant current and demand current exceed the setting value. Please use in rational of electric power.

In addition, this series meter be fully satisfied with high reliability and also with standard JIS C 1102-1~9 (IEC 60051-1 matching)



### FEATURES

- ▶ High quality and high reliability meter.
- ▶ 1 unit 4 functions
  - Record of Max. Demand Current.
  - Measurement of Demand Current.
  - Measurement of Instantaneous Current
  - Signal of Alarm Output.
- ▶ Zero adjuster, manual reset of record pointer and setting of alarm output can be adjustable from front of meter.
- ▶ Alarm output contact is a noncontact pointer passing type.

# Specification List of BRL-110CH

## TYPE CODE DESIGNATION

**BRL - 110CH - (1) (2) (3) (4) (5)**

### (1) Time Limit

Mark	Time Limit
02	2 minute
05	5 minute
10	10 minute
15	15 minute

### (2) Color of Cover

Mark	Color
B	Black (N1.5)
C	Dark Blue (7.5BG4/1.5)

### (3) Alarm Contact Output

Mark	Type
0	None
1	Instantaneous output contact
2	Continuance output contact (Aux.power: AC100/110V)
3	Continuance output contact (Aux.power: AC200/220V)

### (4) Instant Meter (option)

Mark	Type
0	None
1	With instant meter
2 <sup>*1</sup>	With instant meter (double extend)
3 <sup>*1</sup>	With instant meter (triple extend)

<sup>\*1</sup> Electromagnetic reset & continuance output contact can not manufacture for Instant meter double extend or triple extend.

### (5) Electromagnetic Reset (option)

Mark	Type
00	None (manual reset)
A1	With electromagnetic reset (AC110V)
B1	With electromagnetic reset (DC110V)
B2	With electromagnetic reset (DC48V)
B3	With electromagnetic reset (DC24V)
A0	With electromagnetic reset (For AC power other than above)
B0	With electromagnetic reset (For DC power other than above)

## Specification List of BRL-110CH

### STANDARD SPECIFICATION

ITEM		SPECIFICATION					
Standard		JISC 1102: 2007 [Electric Indicating Meter Direct Acting Type] JISC 1103 [Dimensions Electric Indicating Meter Switchboards] IEC 60051-1 Compliant					
Demand Meter	Rated input	AC5A or 1A					
	Support system	Pivot system					
	Input consumption VA	Time	2 minute	5 minute	10 minute	15 minute	
		Standard	7.5 VA	7.0 VA	5.0 VA	4.6 VA	
		With instant meter	7.6 VA	7.1 VA	5.1 VA	4.7 VA	
	Dimension meter from front	110×110mm					
	Accuracy	±1.5% of rated input					
	Swing angle of meter	205°					
	Length of scale	158mm					
	Scale plate	White color					
	Pointer	Lance type (Black)					
Time	The time when reach to final steady state value is 95%±3% t: 2 minute, 5 minute, 10 minute or 15 minute						
Max. demand recort pointer	Accuracy of record pointer	±2.0% of rated input					
	Pointer	Lance type (Red)					
	Reset method	Manual reset push button type					
Installation posture		Vertical ( ⊥ )					
Material panel		Iron & non-iron plate use					
Thickness of panel		Below 10mm					
Color of cover		Black: Munsell N1.5 Dark blue: Munsell 7.5BG 4/1.5					
Case material		Cover: Methacrylic acid resin (Antistatic Colcoat Treatment) Base: Flame-retarded ABS resin					
Insulation resistance		Between electric circuit and outer case			DC500V, 50MΩ or more		
Voltage test		Between electric circuit and outer case			AC2210V, between 5sec.		
Safety requirement	Standard	JISC 1010-1					
	Insulation	Between electric circuit outer case: Base of insulation					
	Use	For indoor use (Cubicle etc.)					
	High altitude	Below 2000m					
	Pollution	Pollution level 2					
	Measure category	CAT III					
	Max.circuit voltage	300V (Ammeter)					
Operated temperature humidity range		-10~55℃, Average day temperature 40℃ or less, 25~85% RH					
Storage temperature range		-20~70℃					

## Specification List of BRL-110CH

### OPTION SPECIFICATION

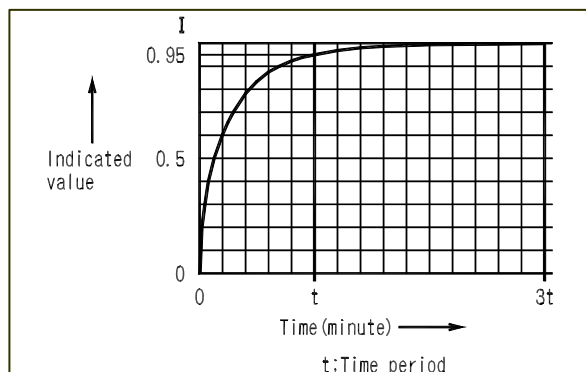
ITEM		SPECIFICATION	
Scale	Color line	Red, Green, Yellow (Please specify)	
	Color area (bar)	Red, Green, Yellow (Please specify)	
	Double scale	Please specify	
	Double seal	Please specify	
	Max. scale division	100 angle = 100 division	
	Special mark	Please specify	
Alarm Output Contact	Output singal type	Instantaneous output contact	Continuance output contact
	Pointer moving range	Passing full scale type	
	Setting range	5%~100%	0%~100%
	Tolerance of pickup value	±3.0% of scale length	
	Relay operation control	H (Upper limit)	
	Setting index	Triangle, Yellow	
	Relay control power	None	AC110V or AC220V ±15% (1VA)
	Contact arrangement	Contact 1C	
	Contact capacity (resistance load)	DC100V, 100mA DC24V, 250mA AC220V, 50mA AC110V, 100mA	DC30V, 2A AC250V, 0.5A
Instant Meter	Tolerance & feature	JIS C 1102-2 of 1.5 class	
	Principle	Rectifier type	
	Swing angle of meter	86°	
	Scale lenght	66mm	
	Pointer	Lance type (Black)	
System reset record pointer electromagnetic	Voltage	AC110V (±15%), DC110V, 48V, 24V (±20%) (Please specify)	
	Comsumption VA	10VA	
	Apply time	Below 1 min. <sup>*1</sup>	
Installation posture		Horizontal, Inclination installation (Specify the angle)	
Material of flame retardant		Cover	Polycarbonate resin
Others		Please consultation with us when special frequency is necessary	

<sup>\*1</sup> Electromagnetic reset voltage:

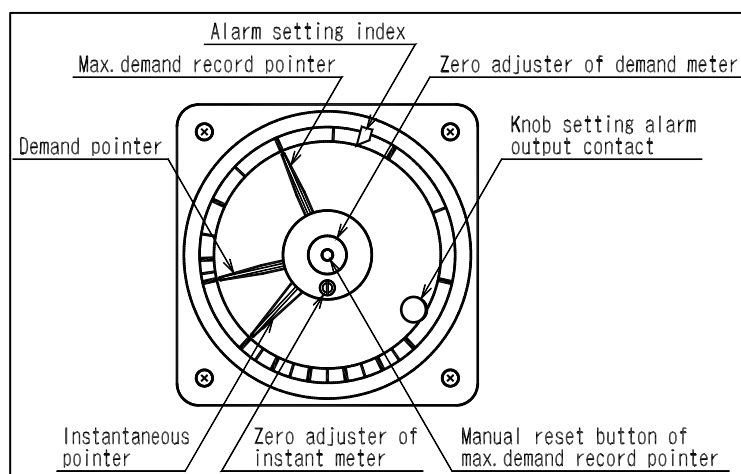
Position pointer of max. demand record will be reset when voltage is impressing.

Record pointer will reset in 1 sec, please do not impress it more than 1 min.

## CHARACTERISTICS TIME LIMIT OF UTILITY METER



## FUNTION



## REST EQUIPMENT OF RECORD POINTER

### \* Operation by Manual Reset (Standard Equipment)

Record pointer is possible to reset with operate the reset push button includes at center of the terminal cover. Rest equipment can be installed in all type models.

### \* Operation by Electromagnetic Reset (Specify)

Record pointer is possible to rest by electromagnetic reset applied voltage between at terminal 3-4. Record pointer will be rest in 1 sec. Please don't applied voltage more then 1 min. Please make polarity like connection diagram at next page when indication instrument input and electromagnetic reset in direct current.

## PURCHASE SPECIFICATION

### Item to specify when make order

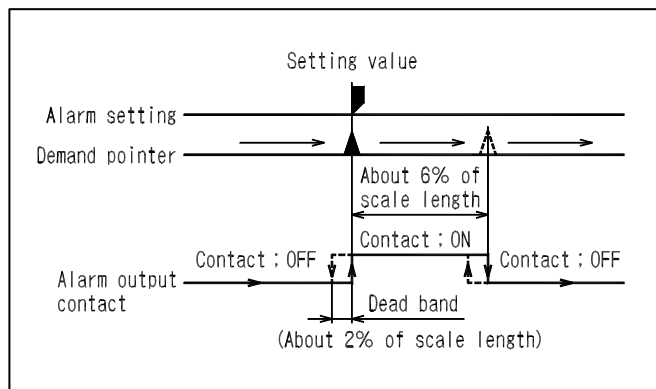
Type Model: BRL-110CH – (1) (2) (3) (4) (5)

- |                         |                                |
|-------------------------|--------------------------------|
| 1) Time limit           | 5) Electromagnetic reset       |
| 2) Color of meter cover | 6) CT ratio (example: 100A/5A) |
| 3) Alarm contact output | 7) Max. scale (example: 100A)  |
| 4) Instant meter        |                                |

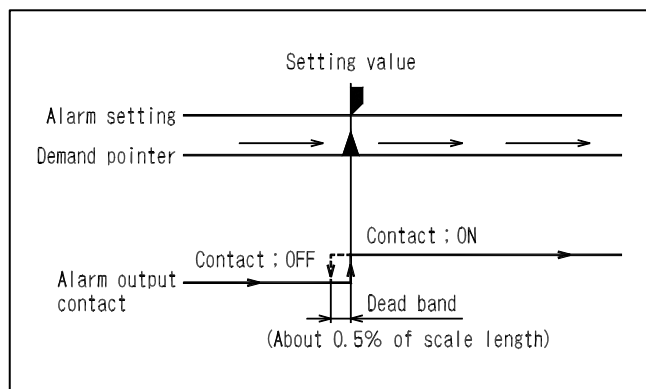
# Specification List of BRL-110CH

## OPERATION OF ALARM OUTPUT CONTACT

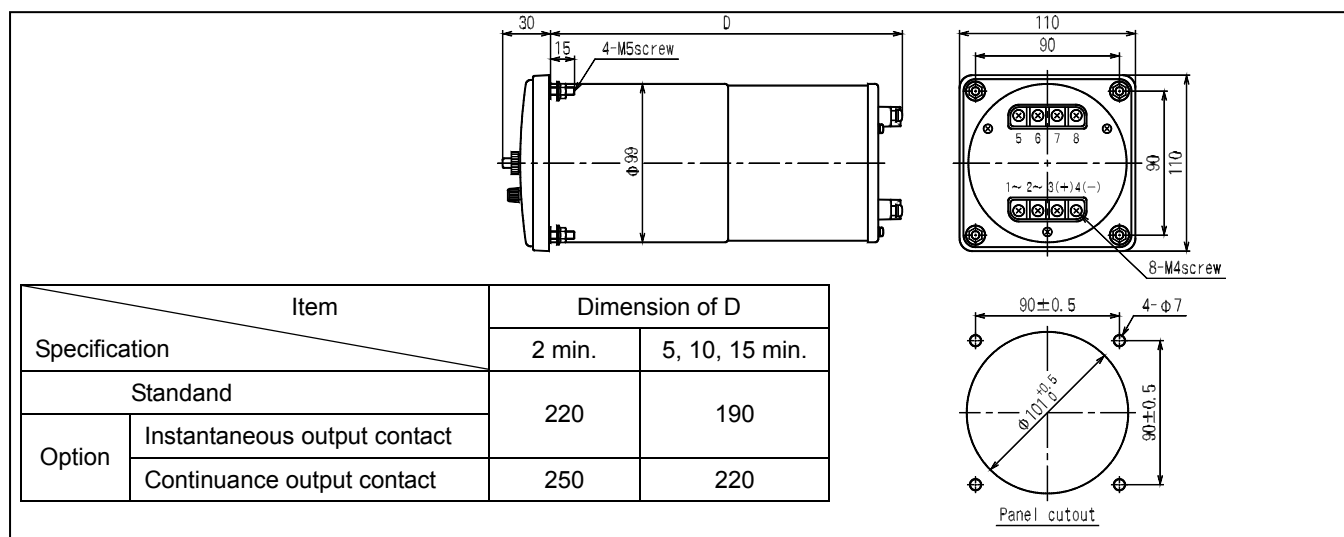
### Type of Contact Instantaneous Output



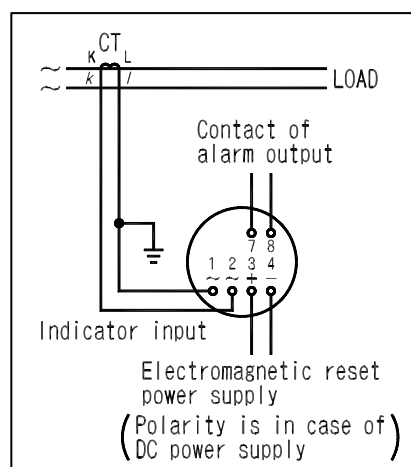
### Type of Contact Continuance Output



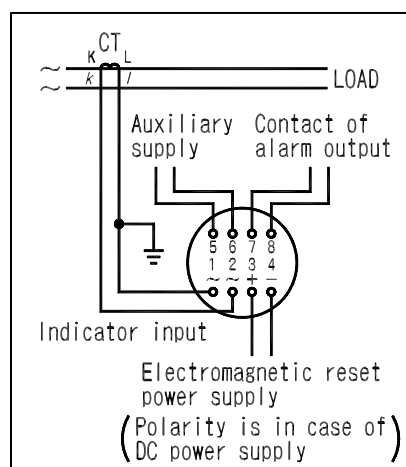
## DIMENSIONS



## CONNECTION DIAGRAM

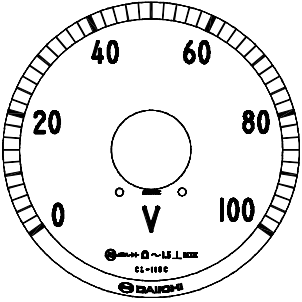
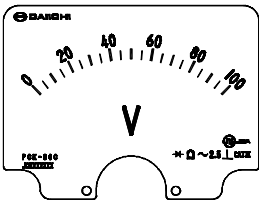
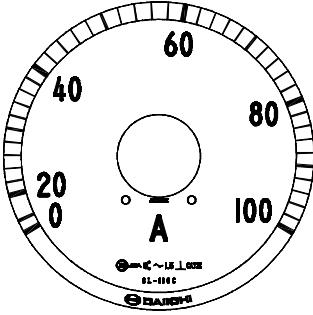
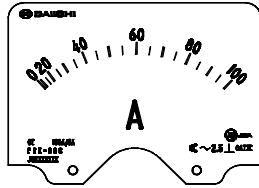
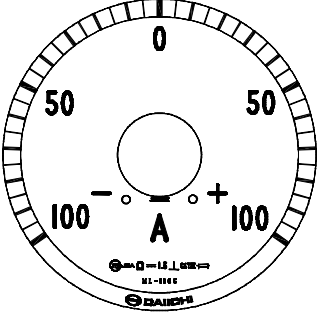
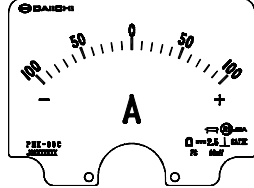
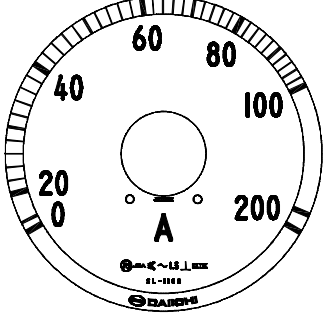
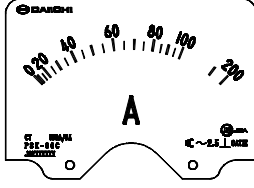
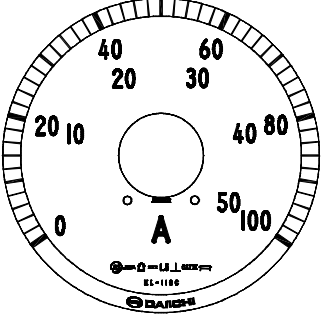
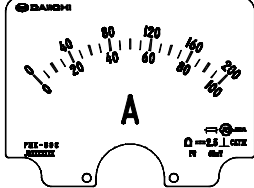


Type of contact instantaneous output



Type of contact continuance output

# EX. SCALE

Scale Specification	Wide Angle Meter Ex.: L-110C	Square Shape Meter Ex.: PK-80C
<b>Standard Scale</b> Scale digit: Black Scale line : Black Unit mark : Black Scale division : Refer to standard lancet shape pointer division		
Moving iron type can be left out the lower value part of scale Scale division : Refer to standard lancet shape pointer division		
<b>± Scale Meter (Both Side Deflect Meter)</b> Scale digit: Black Scale line : Black Unit mark : Black		
<b>Extend Scale (2-Fold Extend)</b> Scale digit: Black ; Extend part: Red Scale line : Black ; Extend part: Red Unit mark : Black		
<b>Single Scale Double Seal Meter</b> Scale digit: Black Scale line : Black Unit mark : Black Standard place a seal of scale figure : Higher value will display at inside & smaller value will display at outside		

# EX. SCALE

Scale Specification	Wide Angle Meter Ex.: L-110C	Square Shape Meter Ex.: PK-80C
<b>Double Scale Double Seal</b> Scale digit: Black Scale line : Black Unit mark : Black Scale division : Refer to standard lancet shape pointer division Standard place a seal of scale figure : Higher value will display at outside & smaller value will display at inside For wide angle meter : Higher value will display at inside & smaller value will display at outside		
<b>Coloring Scale (Color Line)</b> Scale color line : Red, Yellow, Green Possible combine the color line & color figure to use for double scale		
<b>Color Belt</b> Color Belt : Red, Yellow, Green		
<b>Scale line and Scale figure</b> 1) Type of scale line Scale figure will print at main line Please refer to standard lancet shape pointer division & standard knife shape pointer division	 Main Line   Center Line   Thin Line	 Main Line   Center Line   Thin Line
2) Figure of scale : Max. 4-digit (9999) If 10000 is exceed, unit will be change like 6.6kV or use multiple like 36× 1000min <sup>-1</sup> 3) Please have a consultation with us if scale division is diffirent with standard division (odd scale) Please specify for Max. division 4) Display 「0」 will be left out if the scale figure after decimal point is Zero. (like scale figure 1 as below) 5) Display 「0」 will be left out if the scale figure before decimal point is Zero. (like scale figure 0.5 as below)		
Ex. : For range value 1.5  		
	Wide Angle Meter Scale will display by「1.0」for wide angle meter (except BRL & RL series)	Square Share Meter BRL & RL series is same scale as square share meter





## § Wide Angle METER §

### STANDARD DIVISION OF LANCET-SHAPED POINTER



L series



PK series

MODEL	L-65C PK-60C, 80C, 100C LK-8C, 10C BRL-110CH Instant Meter		RL-80C PK-120C LK-12C F-10	
MAX. SCALE VALUE	SCALE DIVISION DIAGRAM	DIV.	SCALE DIVISION DIAGRAM	DIV.
1		20		20
1.5		30		30
2		20		40
2.5		25		25
3		30		30
4		20		40
5		25		25
6		30		30
7.5		15		37.5
8		16		40
9		18		45

## § Wide Angle METER §



LK series



F series



F series

MODEL	RL-110C BRL-110CH      Utility meter		F-15, 17      Note) 4-digit scale of 2T is L-110C                      not manufacturable. L-80C EL-110C		
MAX. SCALE VALUE	SCALE DIVISION DIAGRAM		DIV.	SCALE DIVISION DIAGRAM	DIV.
1	<div><div>*2</div><div><div>0</div><div>2</div><div>4</div><div>6</div><div>8</div><div>10</div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><d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## *§ Wide Angle METER §*

### STANDARD DIVISION OF KNIFE-EDGE POINTER

MODEL	PK—60C, 80C, 100C LK— 8C, 10C FK— 5C <sub>2</sub>	PK—120C LK— 12C FK— 7C		
MAX. SCALE VALUE	SCALE DIVISION DIAGRAM	DIV.	SCALE DIVISION DIAGRAM	DIV.
1		50		50
1.5		30		75
2		40		40
2.5		50		50
3		30		60
4		40		80
5		50		50
6		30		60
7.5		37.5		75
8		40		80
9		45		45

- ▶ Division line part of is omitted for moving iron type meter.
- ▶ For scale extended meter, red color line and numbers of extended part.
- ▶ Have a consultation with us for +/- meter, notation of max. scale value, multiple scale meter, etc.
- ▶ \*1, becomes 15 divisions for scale extended ammeter PK-60C, PK-80C and LK-8C.
- ▶ \*2, becomes 20 divisions for scale extended ammeter PK-120C, LK-12C, F-10, 15, 17, RL-80C and RL-110C.
- ▶ \*3, becomes 15 divisions for scale extended ammeter PK-120C, LK-12C, F-10, 15, 17 and RL-80C.
- ▶ \*4, becomes 25 divisions for scale extended ammeter RL-110C.
- ▶ \*5, seal numbers: 0, 30, 60, 90 for type meter F-15, and 17.
- ▶ \*6, becomes 16 divisions for scale extended ammeter PK-120C, LK-12C, F-10, RL-80C.
- ▶ \*7, becomes 18 divisions for scale extended ammeter PK-120C, LK-12C, F-10, RL-80C.
- ▶ \*8, becomes 30 divisions for scale extended ammeter F-15, 17.
- ▶ \*9, becomes 37.5 divisions for scale extended ammeter F-15, 17.