

§ Wide Angle *METER* § L Series

AC AMMETER / VOLTMETER / RECEIVING INDICATOR (TRANSDUCER TYPE / RECTIFIER TYPE) **CL YL**

1. **AC AMMETER**

Maximum Scale Value		Approx. Internal Resistance or Voltage Drop				Operational Principle
Normal scale	3-time extension	CL-110NC	CL-80NC	CL-110C, CL-80C	CL-65C	
1mA 10mA ∷ 300mA	-	-	-	3V	1.5V 0.5VA	Rectifier type
0.5A 1A 5A 7.5A 10A 15A 20A 30A	1.5A 3A 15A 22.5A 30A - - -	0.4VA	0.4VA	-	1VA *	
5/5A ∷ 10k/5A	15/5A ∷ 30k/5A		0.4VA	0.4VA	-	1VA *

▶ **When** the maximum scale value exceeds 30A or the circuit voltage exceeds 600V, use a 5A (1A) meter together with an external CT (current transformer).

* **MR-CTN** is attached to L-65C. **AT-62M** is attached in the case of scale extension.

▶ **Use** a cycle control type for cycle control waveform.

Type name: **CTL-110NCC** (in the case of input from 301V to 600V with an attachment : T2-72), **CTL-80CC** (with attachment: AT-62MEC)

2. **AC VOLTMETER**

Maximum Scale Value	Operating Current or VA Consumption			Operational Principle
	CL-110NC, 80NC	CL-110C, 80C	CL-65C	
3V ∷ 25V	-	3mA	1.1mA	CL-110NC, 80NC are transducer type (RMS value rectifying method); CL-110C, 80C, 65C are rectifier type.
30V ∷ 100V	-	1.1mA		
150V 300V	0.8VA 1.8VA	-		
600V	-	0.7VA		
600V/150V ∷ 500k/150V	0.8VA	-	-	

▶ **For** any maximum scale value exceeding 600V, please use a 150V meter together with an external transformer for meter. Series resistor method meter can be manufactured as well, have a consultation with us if you need it.

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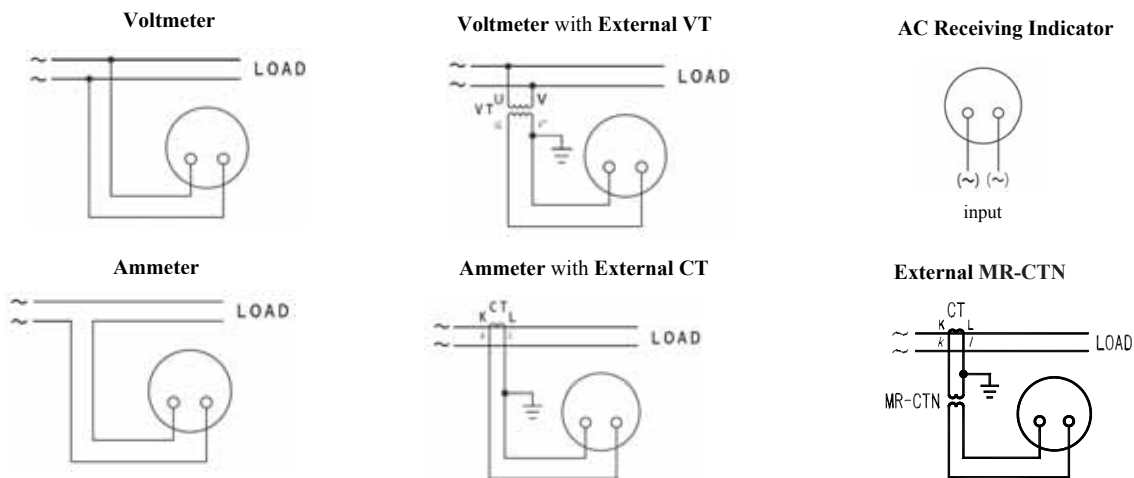
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3. AC RECEIVING INDICATOR

A receiving indicator is an ammeter or a voltmeter that is used to receive electrical signal from a detector or a transmitter, and then measures and indicates various physical quantities, power, power factor, and frequency and so on.

Volume of Electrical Input	Approx. Internal Resistance		Volume of Electrical Input	Consumption Current	
	YL-110C, YL-80C	YL-65C		YL-110C, YL-80C	YL-65C
500 μ A	6k Ω	3k Ω	3~6V	3.3mA	1.1mA
1mA	3k Ω	1.5k Ω	7.5~12V	3.15mA	
3mA	1k Ω	670 Ω	15~25V	2.94mA	
5mA	600 Ω	250 Ω	30V	1.1mA	
10mA	300 Ω	50 Ω	?		
20mA	150 Ω	25 Ω	300V		

CONNECTION DIAGRAM



DIMENSIONS

