§ Wide Angle METER § L Series

DC AMMETER / VOLTMETER / RECEIVING INDICATOR (MOVING COIL TYPE)/ ML XL

1. DC AMMETER

Maximum Scale Value	* *	al Resistance or e Drop	Attachment	
	ML-110C, 80C	ML-65C		
200μΑ	1.6kΩ	1.6kΩ		
1mA	185Ω	185Ω		
5mA	10Ω	12Ω	-	
20mA	2.5Ω	3Ω		
50mA~30A	50mV	60mV	-	
30A~10kA	601	mV	Shunt	

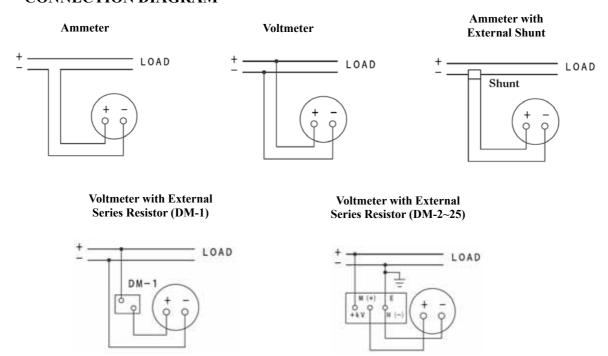
- ▶ Any max. scale value exceeding 30A is dealt by a 60mV meter with an external shunt.
- ► A meter with a built-in adjustable resistor for external resistance correction can be manufactured.
- ► Shunt lead wire is not attached. The standard of lead wire resistance is $0.07\Omega(1.25\text{mm}^2)$

2. DC VOLTMETER

Maximum Scale Value	Approx . Consu	Attachment		
Wiaximum Scale Value	ML-110C, 80C	ML-65C	Attachment	
50mV~900mV	2mA	2mA	-	
1V~600V	1mA	1mA	-	
750V/1mA~25kV/1mA	1mA	1mA	Series resistor	

▶ Any maximum scale value exceeding 600V is dealt by a 1mA meter with series resistor.

CONNECTION DIAGRAM



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3. DC 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.

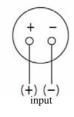
Volume Of Electrical Input	Approx . Internal Resistance		Volume Of Electrical	Consumption Current	
	XL-110C, XL-80C	XL-65C	Input	XL-110C, XL-80C	XL-65C
200μΑ	$1.6 \mathrm{k}\Omega$	1.6kΩ	1V		2mA
500μΑ	630Ω	630Ω	2V		2mA
1mA	185Ω	185Ω	1~5V		1mA
2mA	18Ω	18Ω	5V	1mA	1mA
5mA	10Ω	12Ω	10V		1mA
10mA	5Ω	6Ω	20V		1mA
20mA	2.5Ω	3Ω	50V	*	1mA
4~20mA	6Ω	6Ω	ì		1mA
10~50mA	12.5Ω	1.5Ω	300V		1mA

- ► For a receiving indicator that receives biased signal such as input DC1~5V, DC4~20mA, zero point adjustment is required when receiving such biased input.
- * Consumption current of VR built-in measuring is 2mA(XL-65C is 1mA)

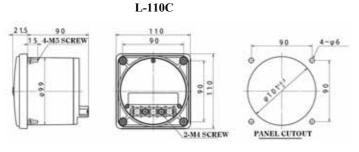
DIMENSIONS

CONNECTION DIAGRAM

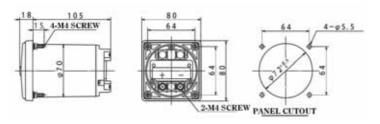
DC Receiving Indicator



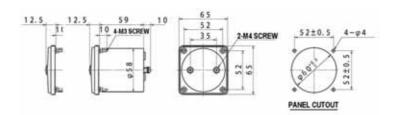
• A meter with bidirectionally swinging pointer can be manufactured.



L-80C



L-65C



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Electrical indicating meter Catalog e-99-024/-