

Specification List of ERL-110C Series

STANDARD SPECIFICATION

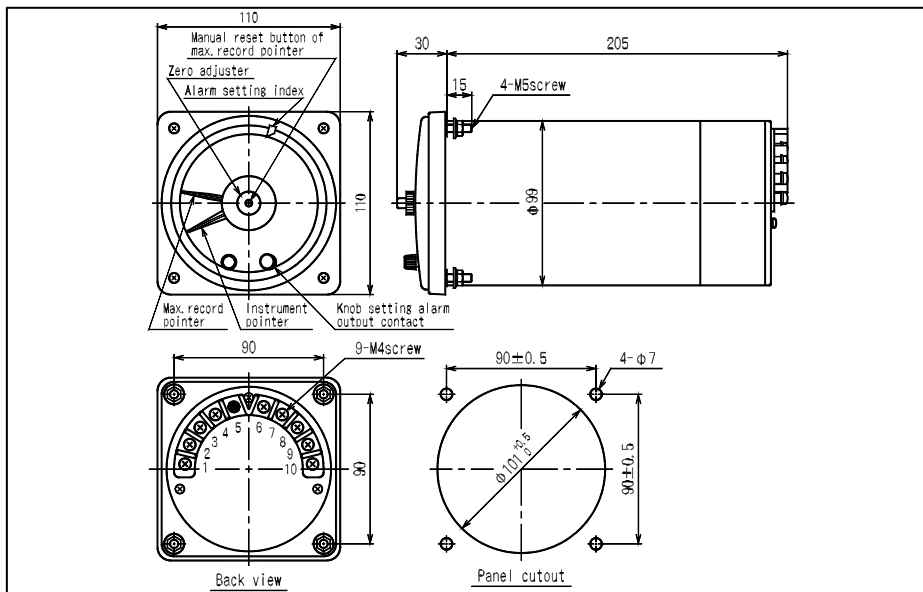
ITEM		SPECIFICATION
Class		Refer to [ERL Specification List]
Support system		Pivot system
Swing angle of meter		205°
Dimension meter from front		110×110mm
Length of scale		164mm
Scale plate		White
Pointer	Instrument	Lance type, Black
	Highest record	Lance type, Red
	Reset record	Manual rest with push button
Response time		When apply step input, final steady state value is measure up to 90% in time
Installation posture		Vertical (⊥)
Material panel		Iron plate and non-iron plate
Thickness panel		Below 10mm
Type of output signal		Passing type not contact output (holding type)
Pointer moving range		Passing full scale type
Setting range		Full scale
Pickup value tolerance		±1.0% of scale length
Dead band		1.0% of scale length
Min. setting width		3% of scale length
Relay operation control system		H (upper limit)
Setting index		Triangle, Red
Relay control power		AC110V or AC220V (4.5VA): +10%-15% (50/60Hz) DC100V or DC110V (30.VA): -20%+30% (For CERL-110CH Only)
Contact structure		1C contact
Contact capacity		AC200V, 0.5A, (resistance load) ; DC30V, 2A (resistance load)
Color of cover		Black: (Munsell N1.5) Dark blue: (Munsell 7.5BG4/1.5)
Material of case		Cover: Methacrylic acid resin molding (Antistatic prevention 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
	Insulation	Between electric circuit and outer case: Base of insulation
	Use	For indoor use (Cubicle etc.)
	High altitude	2000 or less
	Pollution	Pollution level 2
	Measure category	CAT III
	Max. circuit voltage	300V (Ammeter)
Operated temperature / humidity range		-10~55°C, Average day temperature is 40°C or less, 25~85% RH
Storage temperature range		-20~70°C

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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	110 angle: 100 division
	Special scale	Please specify
Tropical specification		Rust preventative, 「FOR TROPICS」 will display at the name plate
Rest equipment of record pointer Electromagnetic Reset	Voltage	AC110V $\pm 15\%$; DC110V, 48V, 24V $\pm 20\%$ (Please specify)
	Consumption VA	10VA
	Apply time	Below 1 min.
Installation posture		Horizontal, inclination installation (specify the angle)
Material of flame retardant	Cover	Polycarbonate resin

Dimensions



ITEM TO SPECIFY WHEN PURCHASE

1. Type
2. Max. scale value
3. Response time
4. Rating of CT or VT
5. Record pointer rest system
 - (a) Manual rest type
 - (b) Manual and Electromagnetic combined usage type
6. Aux. power for manual & electromagnetic combined usage type
7. Aux. power
8. Option (Refer to special specification)

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LIST OF SPECIFICATION

Type		Principle	Model	Class	Record Pointer Accuracy	Max. Input and Range	VA or Internal resistance		Response time (sec)	Transducer	Note		
							Voltage	Current					
DC Ammeter		Moving coil	MERL-110CH	1.5	± 2.0%	20mA	—	Below 500Ω	0.2	—			
						50mA	—	200Ω					
						100mA	—	100Ω				0.1, 0.2	
		Transducer	MTERL-110CH			100μA~10A	—	60mV	0.2	Auxiliary Power AC100V or AC200V			
DC Voltmeter		Moving coil	MERL-110CH	1.5	± 2.0%	10V~300V	20mA	—	0.2				
		Transducer	MTERL-110CH			60mV~10V	1mA	—				Auxiliary Power AC100V or AC200V	
AC Ammeter		Rectifier	CERL-110CH	1.5	± 2.0%	0.1A~10A	—	Below 6VA	0.1, 0.15, 0.2	—			
											0.5~30		
AC Voltmeter			CERL-110CH			100V~300V	Below 6VA	—	0.1, 0.15, 0.2	—			
											0.5~30		
Watt Meter	Single phase	Transducer	WERL-110CH-12	1.5	± 2.0%	110V, 5A 220V, 5A	2VA	1VA	0.5~30	WT-83M-12			
	3 phase		WERL-110CH-33				Each phase 2VA	Each phase 1VA		WT-83M-33			
Var Meter	Single phase	Transducer	WVERL-110CH-12	1.5	± 2.0%	110V, 5A 220V, 5A	2VA	1VA	2~30	WVT-83M-12	Specify frequency		
	3 phase		WVERL-110CH-33				Each phase 2VA	Each phase 1VA		WVT-83M-33	Specify frequency		
Power Factor Meter	Single phase	Transducer	PERL-110CH-12	5.0	± 6.0%	110V, 5A 220V, 5A	2VA	1VA	2~30	PT-83M-12	Specify frequency		
	3 phase		PERL-110CH-33				Each phase 2VA	Each phase 1VA		PT-83M-33	Specify frequency		

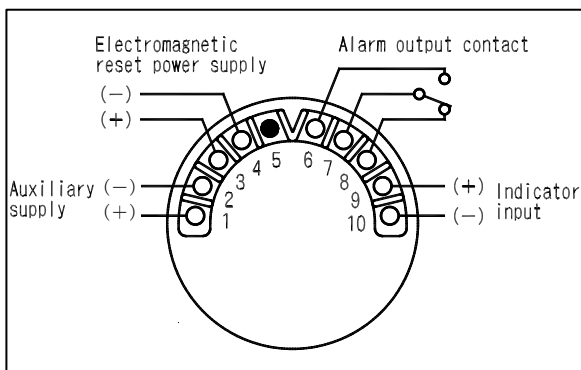
Note:

Electromagnetic reset voltage: AC110V $\pm 15\%$, DC110, 48, 24V $\pm 20\%$

It is possible to reset the record pointer by impressed electromagnetic reset voltage.

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

Connection Diagram



Behavior of Alarm Output Contact

