



# SUPER MULTIMETER

SQLC-110L

# ☆★☆NEW PRODUCT☆★☆

Delivery Start from November

Patent Pending

High-performance, electricity monitor + prevention maintenance in one, 4 measuring simultaneously indicate.

# ■Summary

Voltage (RS-ST-TR), Current (R-S-T), Demand current (R-S-T), Max. Demand current (R-S-T), Power, Demand power, Max. demand power, Reactive power, Apparent power, Power factor, Frequency, Leak current, Harmonic RMS value (A·V), Distortion ratio, Relative harmonic content, Watt-hour, Var-hour, all measurement function in one.

3-phase 3-wire, single phase 3-wire, single phase 2-wire are shared, 3-phase 4-wire comes correspondent by reshuffling by 2VT-3CT/3VT-3CT setting.

#### ■Feature

- \* 4 measuring indication consisting of 1 main monitoring and 3 sub-monitoring + bar graph display.
- \* Electric leakage measurement and alarm output is possible.
- \* 4 circuits of analog output; pulse, alarm, CPU abnormality, communication output.
- \* Communication output supports CC-Link, Modbus RTU. protocol A (RS-485)

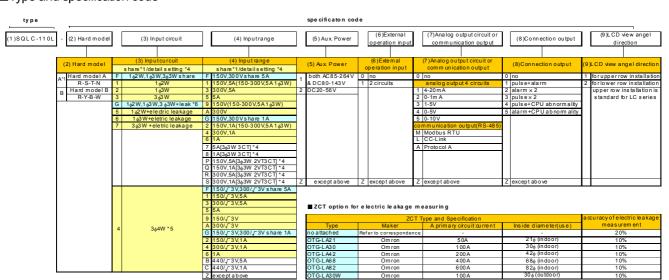


SQLC-110L 110 × 110 × 120mm (600g)

#### ■Specification

Name		F_lectionic Super viultimater			
Туре		SQLC-1102			
Input circuit		3-phase 3-wire, single phase 3-wire, single phase 2-wire share(2VT • 2CT), 3-phase 3-wire(2VT • 3CT)	Specify, please.		
		3 P4 W (2VT·3CT/3VT·3CT reshuffling by setting.	Specify, please.		
Input rating	3P 3W, single phase3-wire single phase3-wire single phase2-wire AC110V,220V share (single phase 3-wire, AC100-200V) AC5A or 1A 50/60Hz please specify.				
3. 3	3P4W	AC110/\3V.220/\3Vshare or 440/\?'V AC5A.or 1A 5//60Hz bleasr, specify.	L .		
Auxiliary Supply	Power range and consumption VA	(1 A 285~2 X V 10\/A rating v.ltac (: AC : 00/110\/ 200/: 20\/ ) DC80~143 V 6W (r.tinc v.ltage D C : 00/110\/ )	F lease specify either ( ) or (2).		
	Rush current (a time constant)	rating voltage AC110V 2.2A or less (approx. 3.6ms)			
		rating voltage AC220V 4.4A or less (approx. 3.6ms)			
		rating voltage DC110V 1.6A or less (approx. 3.6ms)			
		rating voltage DC24V 5.0A or less (approx. 2.0ms)			
		rating voltage DC48V 9.9A or less (approx. 2.0ms)			

# ■Type and specification code



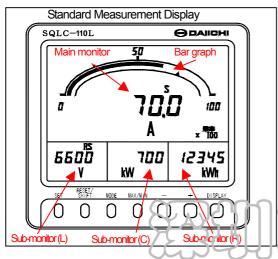
- It shows as R-S-T-U in catabg, in case of Hard Model B, please read as R-Y-B-W.
  Possible to change the setting after purchase with choose the code symbol in F, G with an 3 input circuit and an 4 input range.
  Possible to change the setting after purchase with choose the code symbol among detailed setting with an 3 input circuit and an 4 input range, the setting can be set with the detailed symbol code.
  For the code [33W 3CT] [3 3W 2VT 3CT], please choose the F or 3 for the 3 output circuit code.
- Possible to reshuffling the setting from 2VT3CT to 3VT3CT.

  Please choose the ZCT for measure the leakage. When the purchased is separately, please inform that with an attached unnecessary. Please refer the list\* for correspondence the ZCT.

**■**Communication specification

·	EAI RS-485 2 half duplex wires start-stop synchronization type				
Protocol A	Transfer speed	1200/2400/4800/9600/19200bps	Address	1~254	
	Cable length	1000m(total extension length)	Transfer character	ASCII code	
Protocol	EAI RS-485 2 half duplex wires start-stop synchronization type				
	Transfer speed	4800/9600/19200/38400bps	Transfer code	Binary	
Modbus RTU mode	Cable length	1000m (total extension length)	Address	1~254(connect number, max. 31)	
	Transfer speed	156k/625k/2.5M/5M/10Mbps		42(when composing only of this unit)	
CC-Link Ver.1.0	Monopoly bureaus No	Remote device bureau:1 bureau occupation			
	Max. transfer distance	1200m(156kbps)/900m(625kbps)/400m(2.5	Mbps)/160m(5Mbps)	/100m(10Mbps)	

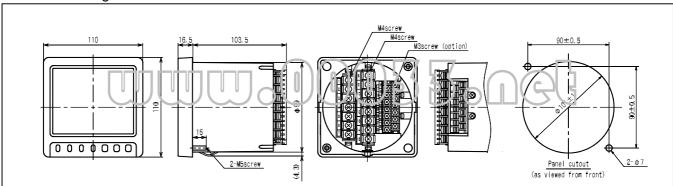
#### ■LCD Display



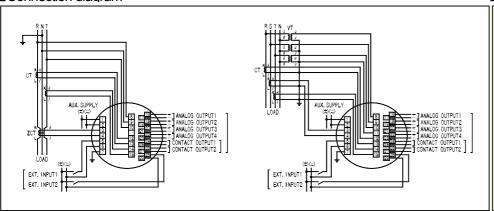
#### ■Elements for display

<b>E</b> LIGITION OF GIOPICY					
Main monitor	V (RS-ST-TR), C (R-S-T), demand current (R-S-T), power, demand power reactive power, apparent power(3 $\phi$ 4W only), power factor, frequency, leak current (w/ leak current measurement only), watt-hour(incoming/outgoing), var-hour(incoming LAG/LEAD · outgoing LAG/LEAD), distortion ratio(A, V)				
Sub-monitor (Left)	V (RS-ST-TR), C (R-S-T), power, reactive power, power factor, apparent power (3 $\phi$ 4W only), leak current (for those w/ leak current measurement only)				
Sub-monitor (Center)	V(RS-ST-TR), C(R-S-T), demand current(R-S-T), power, demand power, reactive power, var-hour (incoming LAG/LEAD $\cdot$ outgoing LAG/LEAD), relative harmonic content (5 <sup>th</sup> )(A,V), relative harmonic content (nth)(A, V)				
Sub-monitor (Right)	V (RS-ST-TR), C (R-S-T), demand current (R-S-T), power, demand power, frequency, power factor, watt-hour (incoming/outgoing), fundamental wave RMS value (A, V), relative harmonic content (5 <sup>th</sup> )(A, V), harmonic nth RMS value (A, V)				
Bar grapi	V (RS-ST-TR), C (R-S-T), demand current (R-S-T), power, demand power, reactive power, ap, arenupo, act 3 g 4W only), if ower factor, frequency, leak current (for those w/leak current measurement only), distortion ratio (A,V), relative harmonic content (5 <sup>th</sup> ) A, V), relative harmonic content (nth)(F, V), fundamental wave RMS value (A, V), relative harmonic 5 <sup>th</sup> F.MS value (A, V), harmonic nth RMS value (A, V)				

# ■Dimensions diagram



## ■Connection diagram



#### ■Zero - phase converter

- 1. ZCT option
- (1) Zero phase converter OTG-LA□ Made by Omron
- 2.Other correspondent ZCT
   The follows are also adaptable.
   Please inquiry in the case of adoption.
- Penetration form ZCT (ZR series)
   ZR-□ produced by Hitachi Industrial
   Equipment Systems
- (2) Zero-phase converter for low-voltage (penetration form) ZB-□ produced by Taiwa Electric Industries Co., Ltd.



#### Safety Precaution



- Only technical expert can install or perform electrical wiring work. Please refer to the operation manual and handle this product properly.
- Please confirm the connection diagram thoroughly before connecting.
- Hot line job is prohibited to prevent an electric shock accident, product damage, burnout, fire ,gas explosion, or other very dangerous accidents may occur.