

LM-200 heater Monitor is monitoring accurately of heater resistance value in electrical furnace. It can find heater short or broken by alarm output setting. Through this products, user can keep optimal condition on the heater or electrical furnace by checking heater life-span or short. Preventive action will be done early through this products

Features

- Accurate heater resistance measuring by calculating input current and voltage through True RMS converter and highly accurate 14Bit ADC with Micro-process.
- Use as a ampere-meter or volt-meter by RMS display.
- Auto measuring of first heater resistance value or manual changing.
- Zero, Span Calibration of actual heater current or voltage.
- 60x80x110mm size, 3mm volt fixing or 35mm DIN rail mounting.

Specifications

INPUT

Description	Voltage Input	Current Input	Others
Input Range	Single-Phase 440 VAC	5 VAC	
Display Range	0.0-440 VAC	0.1- 999.9 VAC	
Accuracy	+ / - 0.1 Volt	+ / - 0.1 Amp	
Frequency	40- 200Hz		
Input Wave	Sine Wave or Phase-Control Wave		
Measuring Value	True RMS		

Output

Alarm-Output Capacity : 125VAC 0.5A, 30VDC 2A

Power

Operating Power: Single-Phase 220V/60Hz

Power Consumption : About 3VA

Display

Display	Name	Unit	Description	Reference
$R\bar{L}\bar{n}$	Alarm-Set Value	Ohm	0.00- 650.0	Alarm-Set Resistance Value[Ohm]
$\bar{C}\bar{U}\bar{r}\bar{r}$	Load Current Value	Amp	0.00- 999.9	Heater-Current Present Value(True RMS)
$\bar{u}\bar{o}\bar{L}\bar{t}$	Load Voltage Value	Volt	0.0- 440.0	Heater Voltage Present Value(True RMS)
$\bar{o}\bar{H}\bar{n}$	Heater Resistance Value	Ohm	0.00-650.0	Auto Heater Resistance Measuring Value[Ohm]

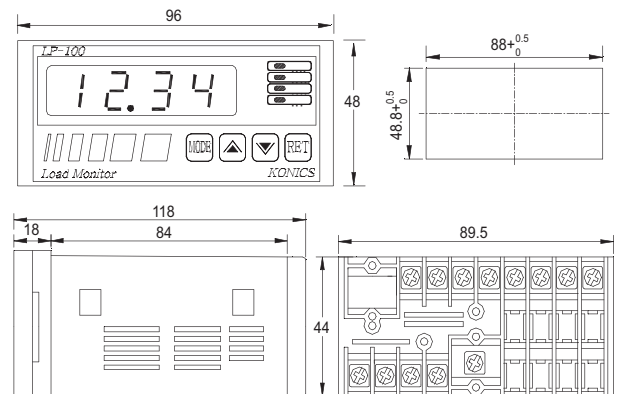
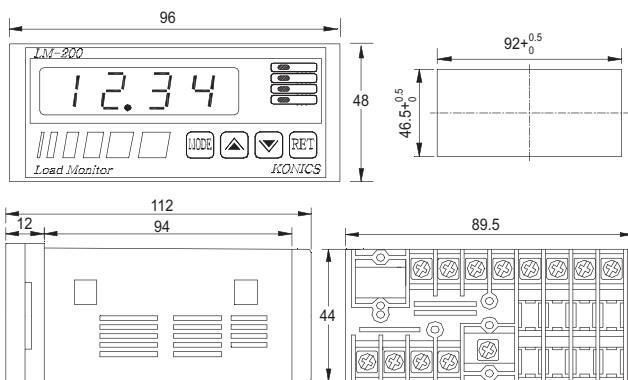


Setting Parameters

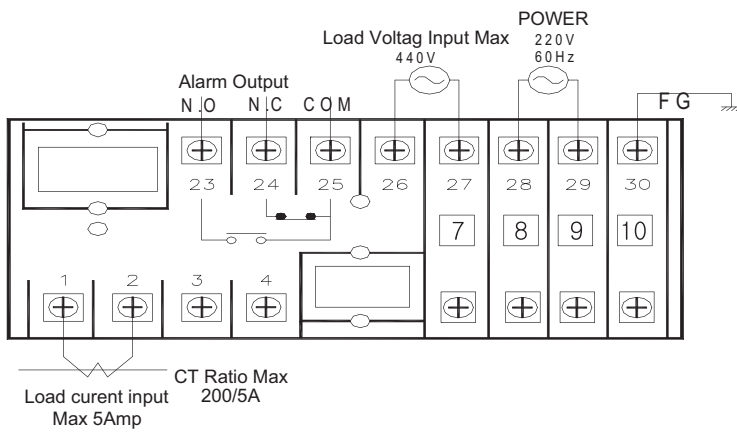
NO.	Display	Description 1	Description 2	Others
P00	$R\bar{L}$	Alarm Level	Alarm Set(%) Value	Heater Resistance Value =100%
P01	$\bar{C}\bar{r}\bar{0}$	Current Zero	Load Current Value	True RMS Ampere
P02	$\bar{C}\bar{S}$	Current Span	Load Current Value	True RMS Ampere
P03	$\bar{C}\bar{t}$	CT Ratio	Load Current Value	True RMS Ampere
P04	$\bar{u}\bar{0}$	Voltage Zero	Load Voltage Value	True RMS Volt
P05	$\bar{u}\bar{S}$	Voltage Span	Load Voltage Value	True RMS Volt
P06	$R\bar{M}$	Alarm Mode	Alarm Mode No.	1 : Load Resistance Auto Measuring 4 : Must-not Set Alarm Output 5 : Alarm Output Test Mode 6 : Alarm Output Use
P07	$H\bar{r}$	Heater Resistor	Load Resistance Value	Auto Load Measured Value
P08	$P\bar{n}$	Parameter mode	First Parameters Value	0 : No Modifying of Set Value 1 : Yes Modifying of Set Value

Dimensions, Panel Cutout

(Unit : mm)



Connections



※ OPTION : RS485/422 WIRING

TERMINAL	7	8	9	10
RS485	R X (+)	R X (-)	-	-
RS422	R X (+)	R X (-)	T X (-)	T X (+)

Ordering Codes

TYPE	Mount	Option	Content
L	P10		KW
	M20		below 5A
	0		PANEL mounting type
	1		SCR mounting type
		0	NONE
		1	Communication RS-485
		2	Communication RS-422
		3	Only Zero-Switching

- A** Recorders
- B** Data Loggers
- C** Indicators
- D** Converters
- E** Controllers
- F** Thyristor Units
- G** Transmitters
- H** Temp. Sensors
- I** Thermo Meters
- J** Pressure Gauges
- K** Others

- DPU series (1Phase)
- DPU series (3Phase)
- SPU
- ZPU
- LM-200/LP100

Load Monitor
KONICS