

Aptus Automation

Temperature Indicator

User Manual

Notice before start-up

Please confirm the specification of instrument is to totally with your requirement before using it, also read this manual in detail.



Danger

Danger! Electric Shock! DON'T touch AC power wiring terminals when instrument has been powered! Keep the power off until all of the wirings are completed!



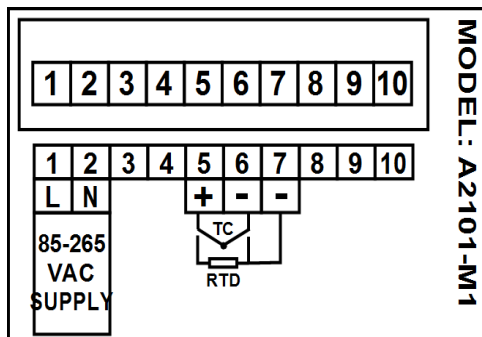
Warning

- 1) Please confirm the AC power wiring to instrument is correct, otherwise it would be caused aggravated damage on instrument.
- 2) Be sure to use the rated power supply, otherwise it would be caused aggravated damage on instrument.
- 3) Please confirm wires are connected with correct terminal (Power, Input and Output).
- 4) Avoid installing instrument in following spaces:
 - I. A place where the ambient temperature may reach beyond the range from 0 to 50°C
 - II. A place where the ambient humidity may reach beyond the range from 20 to 90% RH.
 - III. A place where the instrument likely to come into contact with water, oil, chemicals, steam and vapor.
 - IV. A place where the instrument is subject to interface with static electricity, magnetism and noise.
- 5) For thermocouple (TC) input, use shield compensating lead wire.
- 6) For RTD input, use shield wires which have low resistance and no resistance difference between the 3 wires.

TECHNICAL SPECIFICATIONS

Model No.	: A2101-M1		
Input	: RTD-PT 100, Thermocouples K Type, J Type, R Type, S Type,		
Range	: RTD-PT 100 (0.1 °C)--99.9 to 400.0°C RTD-PT 100 (1°C) - -99 to 400°C Thermocouple K Type -0000 to 1200°C Thermocouple J Type - 0000 to 750°C Thermocouple R Type-0000 to 1750°C Thermocouple S Type- 0000 to 1750°C		
Resolution	RTD-PT 100	-	1°C or 0.1°C
	K Type	-	1°C
	J Type	-	1°C
	R Type	-	1°C
	S Type	-	1°C
Accuracy	: Better than $\pm 0.5\%$ of Full Scale		
Power Supply	: 230VAC $\pm 10\%$, 50Hz.		
Display	: 4 Digits RED Seven Segment Display		

A2101-M1 Terminal Wiring



INPUT TYPE	A2101-M1
230 V AC Power supply	Terminal 1 & 2
Thermocouple Sensor Input	Terminal 5 (TC+) & 6 (TC-)
RTD Sensor Input	Terminal 5 (A), 6 (B) & 7 (B')

PARAMETER SETTING MENU

To enter to Parameter setting menu, press SET key for more than 1 second.

All settings to be done using Increment (▲) and Decrement (▼) keys. Then press enter key to exit & save value.

KEY	DISPLAY	FUNCTION
SET	PASS	Press the set key to enter the password value.
SET	0000	The password is 0808. Then press enter key.
ENTER	InPt	This is the parameter to select input sensor type. Press set key to change input sensor type.
SET	J	Input sensor selection. Options are as follows: - S ----- Thermocouple type S sensor R ----- Thermocouple type R sensor K ----- Thermocouple type K sensor J ----- Thermocouple type J sensor RTD 1 ----- 1° RTD Pt-100 [three-wire] sensor RTD.1 ----- 0.1° RTD Pt-100 [three-wire] sensor
SET	OFSt	This is the offset parameter. Press set key to change offset value.
SET	0000	Offset counts which directly add to or subtract from display reading. Setting range = -999 to 999 counts.

DISPLAY MESSAGES

DISPLAY	DESCRIPTION
IPLO	Input signal below lower range setting
IPHI	Input Signal higher than higher range setting
OPEn	No Signal or I/P Wire Break or Sensor Burn Out