AI SERIES ECONOMICAL TEMPERATURE CONTROLLER/ PID CONTROLLER

PRODUCT INTRODUCTION

AI-2 series is energy saving, environmental protection and simple to use. Designed specially for machinery or equipment working in temperature ranging from 0-999℃, such as light industrial machinery, ambient cooling/heating equipment and small ovens.

RECOMMEND APPLICATION

- Oven
- Plastic Machinery
- Packing Machinery
- Food Machinery
  ……

FUNCTIONS AND FEATURES

- Mainboard comes with SSR or relay output module and supports installing L0 or L3 for 1 to 2 channels alarm relay output.
- Delay output function to protect the compressor.
- Universal power supply 100~240VAC.
- Armed with AT and AI PID intelligent control algorithm function.
- Qualified with ISO9001 and CQC, satisfying CE and RoHS standard.

TECHNICAL SPECIFICATIONS

- Input: K, E, J, N, Pt100
- Measuring accuracy: 0.3%FS.
- Control mode: PID control with auto tuning, ON/OFF control.
- Output:

    G: SSR voltage output: 5VDC/30mA

    L: Relay contact output(NO): 250VAC/2A or 30VDC/2A.
- Alarm: High/low limit alarm, deviation high/low alarm.
- Power supply: 100~240VAC, -15%, +10%/50~60Hz.
- Power consumption: ≤3W.
- Ambient temperature: temperature -10~+60℃, humidity 0~90RH%.

- 0.3%FS measuring accuracy
- Dual 3 digits display
- 1-year free warranty

- 0.3%FS measuring accuracy
- Dual 4 digits display
- 1-year free warranty

MODEL SELECTION AND SPECIFICATIONS

AI– ☐		☐	☐	☐	☐	☐	Specifications
Model	208						economical PID temperature controller, dual 3-digit display
	218						economical PID temperature controller, dual 4-digit display
Panel size		A					96*96*100mm
		B					160*80*100mm
		C					80*160*100mm
		D					72*72*95mm
		D2					48*48*95mm
		E					48*96*100mm
		F					96*48*100mm
Output (OUTP)			G				SSR voltage output (5VDC/30mA)
			L				relay contact output (250VAC/2A or 30VDC/2A)
Auxiliary output (AUX)				L0			large volume relay contact output (250VAC/2A) (Chinese brand)
				L2			small volume relay contact output (250VAC/1A) (Omron brand)
				L3			dual channel N/O relay contact output (250VAC/2A) (Chinese brand)
Shell Material					–SU		flame retardant shell

ATTENTION:

1.AI-208 doesn't have C(80*160mm) panel size.

2.Output(OUTP) is not modular assembly.

MODEL SELECTION

AI-208AGL3

<u>AI-208</u>　<u>A</u>　<u>G</u>　<u>L3</u>
　①　　②　③　　④

① Main model for instrument is AI-208, thermocouple/ RTD input, 0.3%FS measuring accuracy.

② Front panel size is A 96*96mm.

③ Main output is SSR voltage output, 5VDC/30mA.

④ AUX is installed with L3 module which means 2 channels alarm relay output.

WIRING DIAGRAM

AI–208（A.B.E.F ）

AI-208(A, B, E, F)

The graph suits for upright instruments with size A & E.

For instruments with size B & F, please clockwise rotate the graph 90 degree and the numbers of terminals keep same.

AI–218（A.B.C.E.F）

AI-218(A, B, C, E, F)

The graph suits for upright instruments with size A, C & E.

For instruments with size B & F, please clockwise rotate the graph 90 degree and the numbers of terminals keep same.

AI–208/218（D）

AI–208/218（D2）