



Features

- Selectable sensor Input (T/C & RTD)
- Control Action : T.P. Control / ON-OFF
- Input Signal Conditioning (Digital Filter & Zero Offset)
- Programmable Lower and Higher Setpoint Limit
- Program Lock function
- Selectable Control Output (Relay / SSR Drive)
- Time Delay for Compressor
- Universal supply voltage (90 to 270 VAC)
- 24 VDC Available on Request

Display Specification

Digits	: 4 Digits Single Row			
	: 7 Segment LED Display			
LED Indication	: OP1 - Control Output Status			
Model	AI-5441	AI-5741	AI-5841	AI-5941
Height				
PV (White)	0.36"	0.56"	0.56"	0.56"

Input Specification

Sensor Input	: Thermocouple - J, K, R, S RTD - Pt-100
Resolution	: T/C - 1°C & Pt-100 - 1°C / 0.1°C
Accuracy	: 0.3% FS
Temperature Unit	: °C
Sampling Rate	: 250msec

Output Specification

Control Output	: Relay / SSR Drive (User Selectable)
Relay	: 5A @ 250VAC / 30VDC
SSR Drive	: 12 VDC @ 30mA

Functional Specification

Control Action	: T.P. Control / ON-OFF
Control Logic	: Heat / Cool
Proportional Band	: 0.5 to 999.9°C
Cycle Time	: 1.0 to 100.0 sec
Hysteresis	: J, K, R, S, RTD - 1 to 100°C RTD.1 - 0.1 to 100.0°C
Delay	: 0 to 500 sec

Auxiliary Supply Specification

Supply Voltage	: 90 - 270 VAC (24 VDC Available on Request)
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Environmental Specification

Temperature	: Operating - 0 to 50°C
Storage	: -20° to 75°C
Humidity	: 95% RH (Non-condensing)

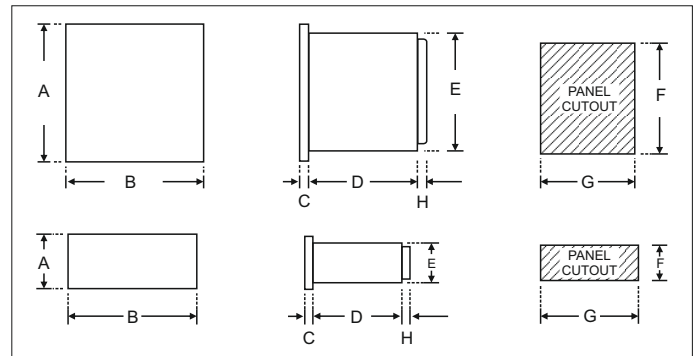
General Specification

Model	AI-5441	AI-5741	AI-5841	AI-5941
Weight (Gms)	130	220	200	240

Certification

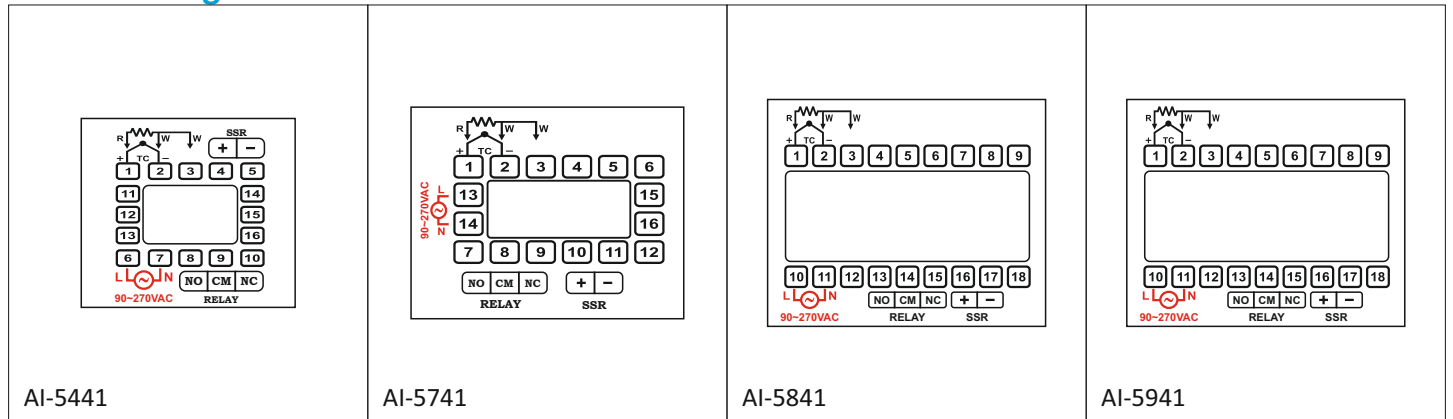
None

Mechanical Dimensions



Model \ Dim	A	B	C	D	E	F	G	H
AI-5441	48	48	8	78	43	44	44	9
AI-5741	72	72	10	65	66	68	68	9
AI-5941	96	96	10	53	89	92	92	9
AI-5841	48	96	10	53	43	44	92	9

Terminal Diagram



Order Code : AI-5XXX Series

Control Action	Size	No. Of Digits	No. Of Outputs	O/P1 Type	O/P2 Type
5 (ON-OFF / TP)	4 (48X48X78)	4 Digits	One	R (Relay)	R (Relay)
	6 (96X48X53)	8 Digits	Two	S (SSR Drive)	S (SSR Drive)
	7 (72X72X65)				N (None)
	8 (48X96X53)				
	9 (96X96X53)				

Example : AI-5741-R-N

Control Action	Size	No. Of Digits	No. Of Outputs	O/P1 Type	O/P2 Type
5	7	4	1	R	N
ON-OFF / TP	7 (72X72X65)	4 Digits	One	R (Relay)	N (None)

Input Sensor Range

Sensor Input	Range	Resolution	Accuracy
Fe-k(J) T/C	0 ~ 760 °C	1 °C	± 1 °C
Cr-AL(K) T/C	-99 ~ 1300 °C	1 °C	± 1 °C
(R) T/C	0 ~ 1700 °C	1 °C	± 1 °C
(S) T/C	0 ~ 1700 °C	1 °C	± 1 °C
Pt-100(RTD)	-100 ~ 450 °C	1 °C	± 1 °C
Pt-100(RTD.1)	-99.9 ~ 450.0 °C	0.1 °C	± 0.3 °C