



Features

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|---|---|
| ➤ Selectable sensor Input (T/C & RTD) | ➤ Time Delay for Compressor |
| ➤ Control Action : T.P Control / ON-OFF | ➤ Universal supply voltage (90 ~ 270 VAC) |
| ➤ Input Signal Conditioning (Filter & Offset) | ➤ Programmable Setpoint Limits |
| ➤ Program Lock function | ➤ Settable soak time delay |
| ➤ Alarm Acknowledge function | ➤ Soak timer function |
| ➤ Alarm Inhibit function | ➤ 24 VDC Available on Request |





Technical Specifications

Display Specification

Digits	4 Digits Dual Row 7 Segment LED Display	
LED Indication	1 - Control Output Status	
Height	PV (White)	SV (Green)
	0.56"	0.56"

Keys

4 Controlling keys for configuration and operation

SET  SHIFT  UP  DOWN 

Auxiliary Supply Specification

Supply Voltage	90 - 270 VAC (24 VDC Available on Request)
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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% FSD
Temperature Unit	°C / °F
Sampling Rate	250 m Sec
CJC Error	± 2°C
Sensor Open	All Input
Sensor Burnout Current	1.10uA
RTD Excitation Current	0.2mA
Input Impedance	>1M
Max Voltage	20 VDC



Make In India



Accurate



Reliable



Affordable



User Friendly

Output Specification

Control Output	Relay / SSR Drive (Factory Set)
Output 2	Relay / SSR Drive (Factory Set)
Relay	5A @ 250 VAC / 30 VDC
SSR Drive	12 VDC @ 30mA

Environmental Specification

Temperature	Operating - 0 to 50°C
Storage	-20° to 75°C
Humidity	95% RH (Non-condensing)
Protection	IP 65 (Front Side)

General Description

Model	AI-5982
Weight (Gms)	250
Enclosure	Molded ABS
Color	Black
Accessories	1 Pair of Mounting clamp
Terminal Cable Size	Barrier Type terminal cable Size (2.5 mm ²)

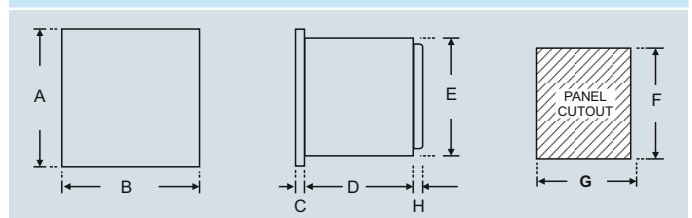
Certification

None

Functional Specification

Control Action	T.P. Control / ON-OFF
Control Logic	Heat / Cool
Proportional Band	0.5 to 99.9°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
Output2 Function	Auxiliary / Alarm / Soak / Timer
Alarm Modes	Low / High /Deviation / Band

Mechanical Dimensions



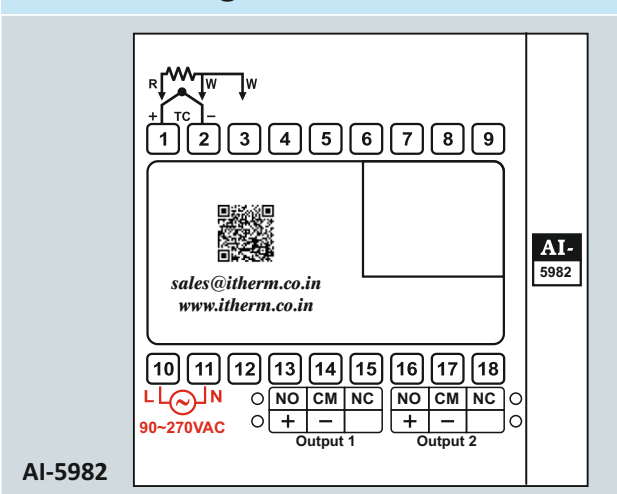
Mechanical Dimensions

Dim	A	B	C	D	E	F	G	H
Model								
AI-5982	96	96	10	45	89	92	92	9

Order Code : AI-5982 Series

Control Action	Size	No. Of Digits	No. of Output	O/P1 Type	O/P2 Type
5 (ON-OFF / TP)	9 (96X96X53)	8 Digits	Two	S (SSR Drive)	S (SSR Drive)

Terminal Diagram



Input Sensor Range

Sensor Input	Range	Resolution	Accuracy
Thermocouple (J) Type	0 ~ 760 °C	1 °C	± 1 °C
Thermocouple (K) Type	-99 ~ 1300 °C	1 °C	± 1 °C
Thermocouple (R) Type	0 ~ 1700 °C	1 °C	± 1 °C
Thermocouple (S) Type	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