



Features

- Selectable sensor Input (T/C & RTD)
- Control Action : PID 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)
- Overshoot Control Protection
- Single Step Ramp
- 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

Height \ Model	Px-414	Px-714
PV (White)	0.36"	0.56"

Input Specification

Sensor Input : Thermocouple - J, K, R, S, N, T, B
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 : PID Control / ON-OFF
Control Logic : Heat / Cool
Proportional Band : 0.5 to 99.9°C
Integral Time : 0 to 3600 sec
Derivative Time : 0 to 300 sec
Cycle Time : 1.0 to 100.0 sec
Overshoot Control Point : 0 to 100%
Output Power Limit : 0 to 100%
Hysteresis : J, K, R, S, N, T, B, 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)

Environmental Specification

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

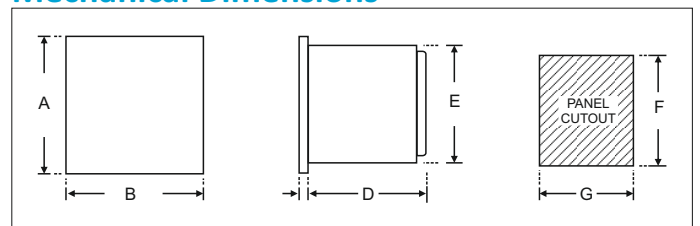
General Description

Model	Px-414	Px-714
Weight (Gms)	140	240

Certification

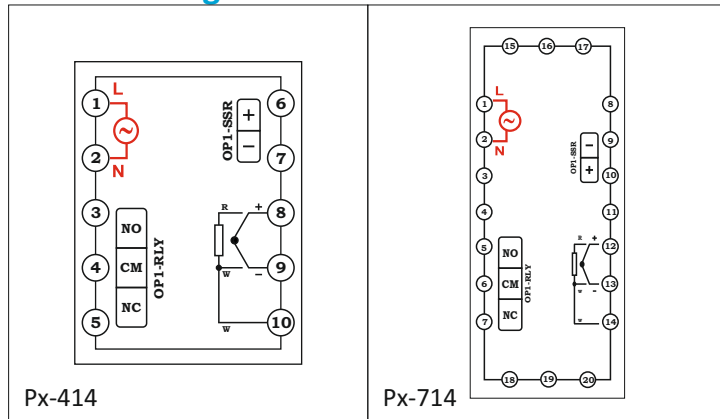
None

Mechanical Dimensions



Model \ Dim	A	B	C	D	E	F	G	H
Px-414	48	48	8	70	43	44	44	9
Px-714	72	72	10	60	66	68	68	9

Terminal Diagram



Order Code : Px-XXX Series

Size	No. Of Outputs	No. Of Digits	O/P1 Type
4 (48X48X70)	1 (One)	4 Digits	R (Relay)
7 (72X72X60)			S (SSR Drive)

Example : Px-414-R-R

Size	No. Of Outputs	No. Of Digits	O/P1 Type
4	1	4	R
4 (48X48X70)	One	4 Digits	R (Relay)

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
TC - N	-99 ~ 1300°C	1 °C	± 1 °C
TC - T	-99 ~ 400°C	1 °C	± 1 °C
TC - B	0 ~ 1800°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