



Features:

- Dual display, 4 digit, 7 segment LED
- Input: TC: (J/K,R/S/B), RTD (Pt-100/3w), Linear 0-10VDC,4-20 mA
- ON-OFF,PID Auto tune
- Control Output: Relay or SSR or linear 4-20 mA DC.
- Alarm output

Optional Features.

- 1) RE-Transmission
- 2) Remote-set points
- 3) RS-485 Communication
- 4) Profile controller

Technical Specifications:

DISPLAY

Digits	Dual display,4 digit,7 segment LED RP-508-A & RP-508-B Upper display: .80" Red LED Indicate PV Lower display: .56" Red LED Indicate SV RP-509-C & RP-509-D Upper display: .39" Red LED Indicate PV Lower display: .27" Red LED Indicate SV
LED Indication	Output & Alarm

CONTROL ACTION

Control Action	PID or ON/OFF
Types of Actions	Heat/cool
Alarm output Modes	High/low, Deviation high/low

INPUT SPECIFICATION

Inputs	Thermocouple (J/K/R/S/B),RTD (pt-100/3w)0-10VDC,4-20 mADC
Accuracy	(+/-) .3% of F.S. Range
Resolution	.0.1°C for RTD,1°C for T/C
Sampling rate	250 ms

GENERAL SPECIFICATIONS

Supply voltage	230V AC @ 50 Hz.
Power consumption	5 VA max @230V AC
Temperature Operating	0-50 °C
Temperature Storage	(-20°C) TO 70 °C
Humidity	95%RH

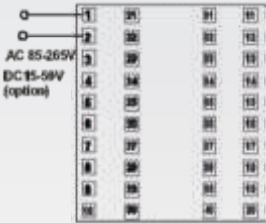
OUTPUT SPECIFICATION

Control output:	1 Nos.Relay,5A@230V AC OR 1 Nos. SSR drives 9 VDC,25 mA OR 4-20 mA@300 ohms
Alarm output:	Up to 2 Nos.Relay, 5A@230V AC Retransmission
Current	0-20 mA/4-20 mA
Voltage	0-10VDC /0-5VDC

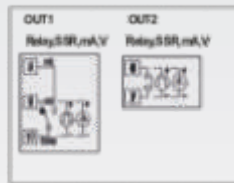
CONNECTING DIAGRAM

RP-509-A (96x 96)

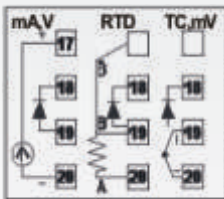
A. POWER SUPPLY



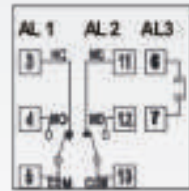
B. CONTROL OUTPUT



C. INPUT



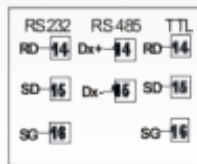
D. ALARM



E. TRANSMISSION



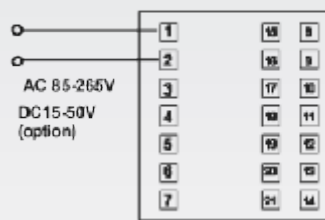
F. COMMUNICATION



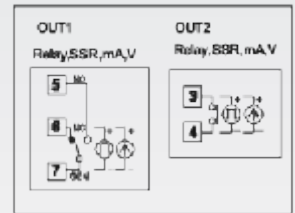
CONNECTING DIAGRAM

RP-509-B (72x 72)

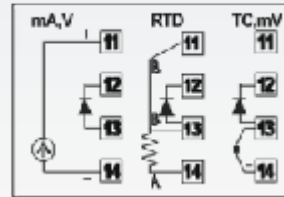
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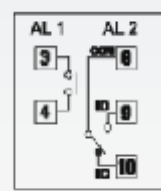
B. CONTROL OUTPUT



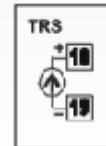
C. INPUT



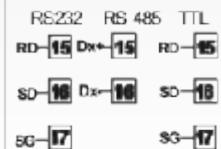
D. ALARM



E. TRANSMISSION



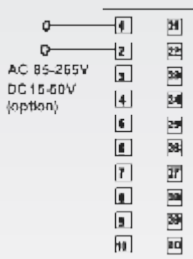
F. COMMUNICATION



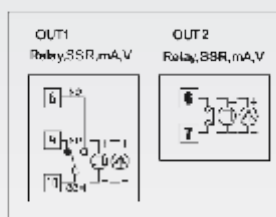
CONNECTING DIAGRAM

RP-509-C (48x 96 / 96 X 48)

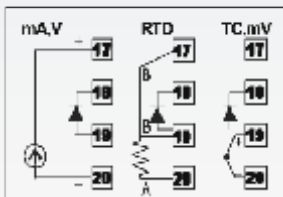
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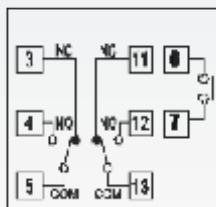
B. CONTROL OUTPUT



C. INPUT



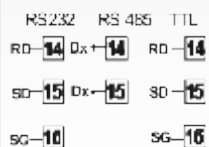
D. ALARM



E. TRANSMISSION



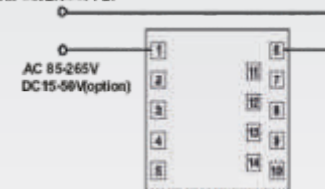
F. COMMUNICATION



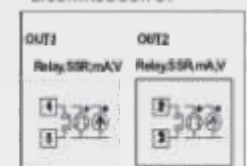
CONNECTING DIAGRAM

RP-509-D (68 x 48)

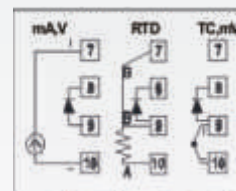
A. POWER SUPPLY



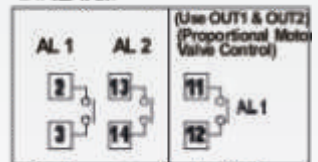
B. CONTROL OUTPUT



C. INPUT



D. ALARM



E. TRANSMISSION



F. COMMUNICATION



MODELS						
SN	MODEL NO.		OU1	OU2	AL1	AI2
1	RP-509-A-1	96X96X85	RELAY	N.A.	RELAY	N.A.
2	RP-509-B-1	72X72X85	RELAY	N.A.	RELAY	N.A.
3	RP-509-C-1	48X96X85	RELAY	N.A.	RELAY	N.A.
4	RP-509-D-1	48X48X85	RELAY	N.A.	RELAY	N.A.
5	RP-509-A-2	96X96X85	SSR	N.A.	RELAY	N.A.
6	RP-509-B-2	72X72X85	SSR	N.A.	RELAY	N.A.
7	RP-509-C-2	48X96X85	SSR	N.A.	RELAY	N.A.
8	RP-509-D-2	48X48X85	SSR	N.A.	RELAY	N.A.
9	RP-509-A-3	96X96X85	4-20 mADC	N.A.	RELAY	N.A.
10	RP-509-B-3	72X72X85	4-20 mADC	N.A.	RELAY	N.A.
11	RP-509-C-3	48X96X85	4-20 mADC	N.A.	RELAY	N.A.
12	RP-509-D-3	48X48X85	4-20 mADC	N.A.	RELAY	N.A.
13	RP-509-A-1-L	96X96X85	RELAY	N.A.	RELAY	RELAY
14	RP-509-B-1-L	72X72X85	RELAY	N.A.	RELAY	RELAY
15	RP-509-C-1-L	48X96X85	RELAY	N.A.	RELAY	RELAY
16	RP-509-D-1-L	48X48X85	RELAY	N.A.	RELAY	RELAY
17	RP-509-A-2-L	96X96X85	SSR	N.A.	RELAY	RELAY
18	RP-509-B-2-L	72X72X85	SSR	N.A.	RELAY	RELAY
19	RP-509-C-2-L	48X96X85	SSR	N.A.	RELAY	RELAY
20	RP-509-D-2-L	48X48X85	SSR	N.A.	RELAY	RELAY
21	RP-509-A-3-L	96X96X85	4-20 mADC	N.A.	RELAY	RELAY
22	RP-509-B-3-L	72X72X85	4-20 mADC	N.A.	RELAY	RELAY
23	RP-509-C-3-L	48X96X85	4-20 mADC	N.A.	RELAY	RELAY
24	RP-509-D-3-L	48X48X85	4-20 mADC	N.A.	RELAY	RELAY
25	RP-509-A-1-2L	96X96X85	RELAY	RELAY	N.A.	RELAY
26	RP-509-B-1-2L	72X72X85	RELAY	RELAY	N.A.	RELAY
27	RP-509-C-1-2L	48X96X85	RELAY	RELAY	N.A.	RELAY
28	RP-509-D-1-2L	48X48X85	RELAY	RELAY	N.A.	RELAY
29	RP-509-A-2-2L	96X96X85	SSR	SSR	N.A.	RELAY
30	RP-509-B-2-2L	72X72X85	SSR	SSR	N.A.	RELAY
31	RP-509-C-2-2L	48X96X85	SSR	SSR	N.A.	RELAY
32	RP-509-D-2-2L	48X48X85	SSR	SSR	N.A.	RELAY
33	RP-509-A-3-2L	96X96X85	4-20 mADC	4-20 mADC	N.A.	RELAY
34	RP-509-B-3-2L	72X72X85	4-20 mADC	4-20 mADC	N.A.	RELAY
35	RP-509-C-3-2L	48X96X85	4-20 mADC	4-20 mADC	N.A.	RELAY
36	RP-509-D-3-2L	48X48X85	4-20 mADC	4-20 mADC	N.A.	RELAY