PPI IndeX Linearised Single Point Temperature Indicator Instruction Manual

Contents

1 PPI IndeX Linearised Single Point Temperature Indicator
2 Product Information
3 Product Usage Instructions
4 OPERATOR PARAMETERS
5 FRONT PANEL LAYOUT
6 ELECTRICAL CONNECTIONS
7 LCR CONNECTION TO CONTACTOR COIL
8 Documents / Resources
8.1 References
9 Related Posts

PPI

PPI IndeX Linearised Single Point Temperature Indicator

Product Information

The Linearised Single Point Temperature Indicator is a device that displays temperature readings and provides alarm notifications when the temperature exceeds certain setpoints. The device has several operator parameters, including Alarm-1 and Alarm-2 setpoints, PV MIN/MAX parameters, Input Configuration Parameters, and Alarm Parameters. It also has a front panel layout that includes a process value display, alarm indicators, and various keys for operation. The device can accept different input types, including RTD Pt100, Type J, Type K, Type R, and Type S.

Product Usage Instructions

To use the Linearised Single Point Temperature Indicator, follow these steps:

1. Connect the device according to the Electrical Connections diagram provided in the user manual.
2. Turn on the device's AC supply.
3. Use the UP and DOWN keys to select the desired input type and temperature range on PAGE-12.
4. Set the Alarm-1 and Alarm-2 setpoints on PAGE-0.
5. Set the maximum and minimum process values on PAGE-1.
6. Set the alarm type and hysteresis on PAGE-11.
7. Press and hold the PROGRAM key for approximately 5 seconds to enter or exit setup mode.
8. Use the UP and DOWN keys to adjust parameter values as needed.
9. Monitor the process value display and alarm indicators for temperature readings and notifications.

Note: For relay output, connect LCR to the contactor coil for suppressing noises as shown in the LCR Connection to Contactor Coil diagram provided in the user manual.

OPERATOR PARAMETERS

Parameters	Settings
Alarm-1 Setpoint 	Minimum to Maximum Range specified for the selected Input type
Alarm-2 Setpoint 	Minimum to Maximum Range specified for the selected Input type

PV MIN / MAX PARAMETERS

Parameters	Settings
Maximum Process Value 	View Only
Minimum Process Value 	View Only
Reset PV Monitor 	 No  Yes

INPUT CONFIGURATION PARAMETERS

<table>
<tr><th>Parameters</th><th>Settings</th></tr>
<tr><td>Input Type
InPt

<table>
<tr><th>Input Type</th><th>Temperature Range</th></tr>
<tr><td>Type J</td><td>0 to 960°C</td></tr>
<tr><td>Type K</td><td>-200 to 1375°C</td></tr>
<tr><td>Type R</td><td>0 to 1770°C</td></tr>
<tr><td>Type S</td><td>0 to 1765°C</td></tr>
<tr><td>RTD Pt100, 3-wire</td><td>-199 to 600°C
or
-199.9 to 600.0°C</td></tr>
</table>
</td><td>Controller Version : J / K / R / S
tc_J Type J
tc_K Type K
tc_r Type R
tc_S Type S

Controller Version : RTD Pt100
rtd RTD (1°C)
rtd.1 RTD (0.1°C)</td></tr>
<tr><td>Offset For PV
OFSt</td><td>-1999 to 9999 for Thermocouple & RTD (1°C)
-199.9 to 999.9 for RTD (0.1°C)</td></tr>
</table>

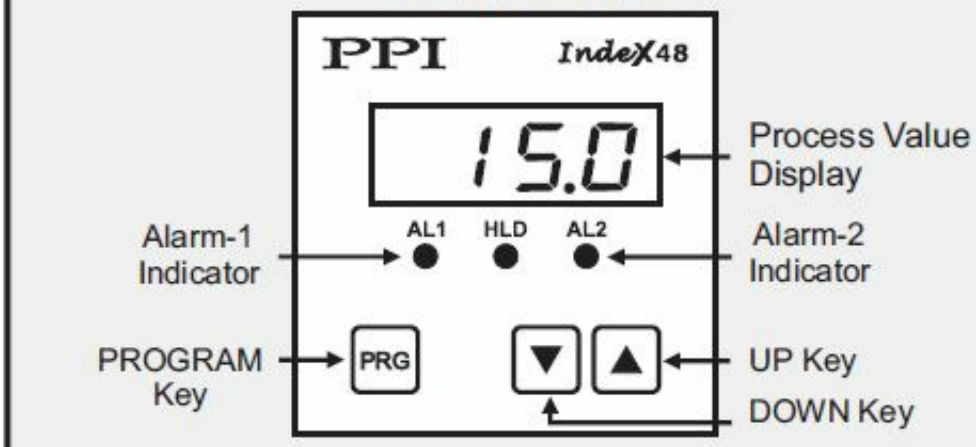
ALARM PARAMETERS

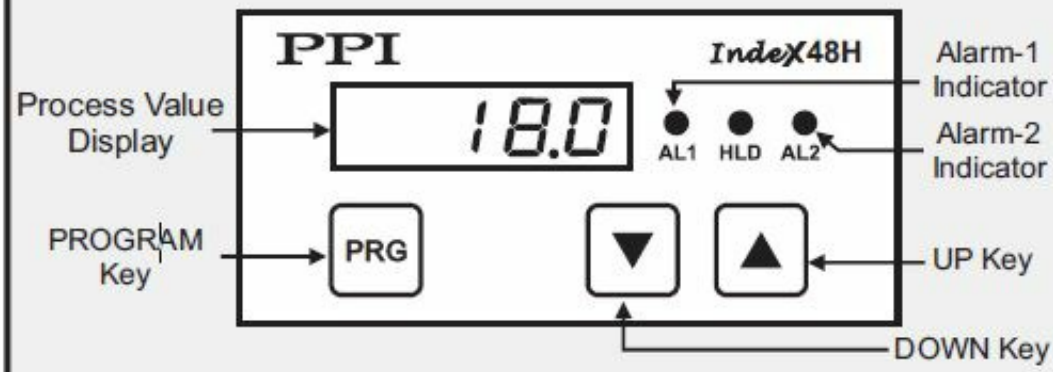
Parameters	Settings
Alarm-1 Type A1.CL	nonE None P_Lo Process Low P_Hi Process High
Alarm-1 Hysteresis A1.HY	1 to 999 **or** 0.1 to 99.9

Alarm-1 Logic A1.LG	norn Normal rEu Reverse
Alarm-1 Inhibit A1.1 h	no No YES Yes
Alarm-2 Type A2.CL	nonE None P_Lo Process Low P_Hi Process High
Alarm-2 Hysteresis A2.HY	1 to 999 **or** 0.1 to 99.9
Alarm-2 Logic A2.LG	norn Normal rEu Reverse
Alarm-2 Inhibit A2.1 h	no No YES Yes

FRONT PANEL LAYOUT

Front Panel





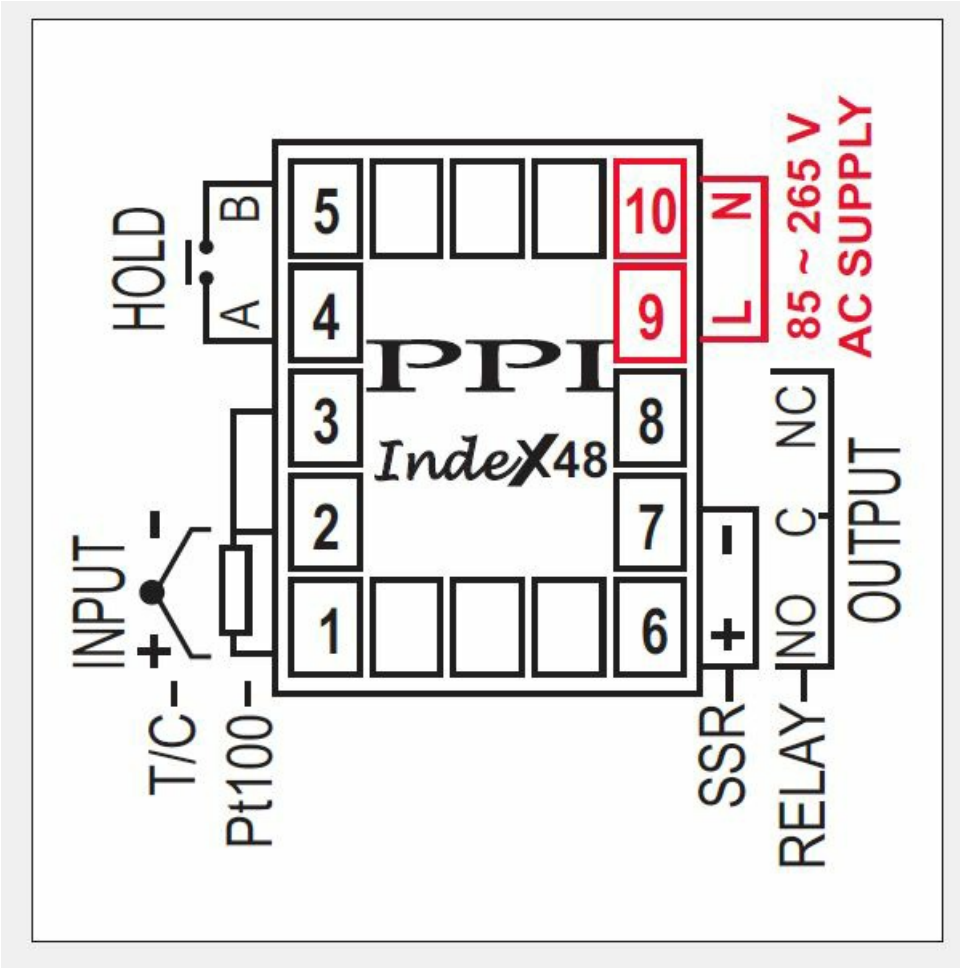
Keys Operation

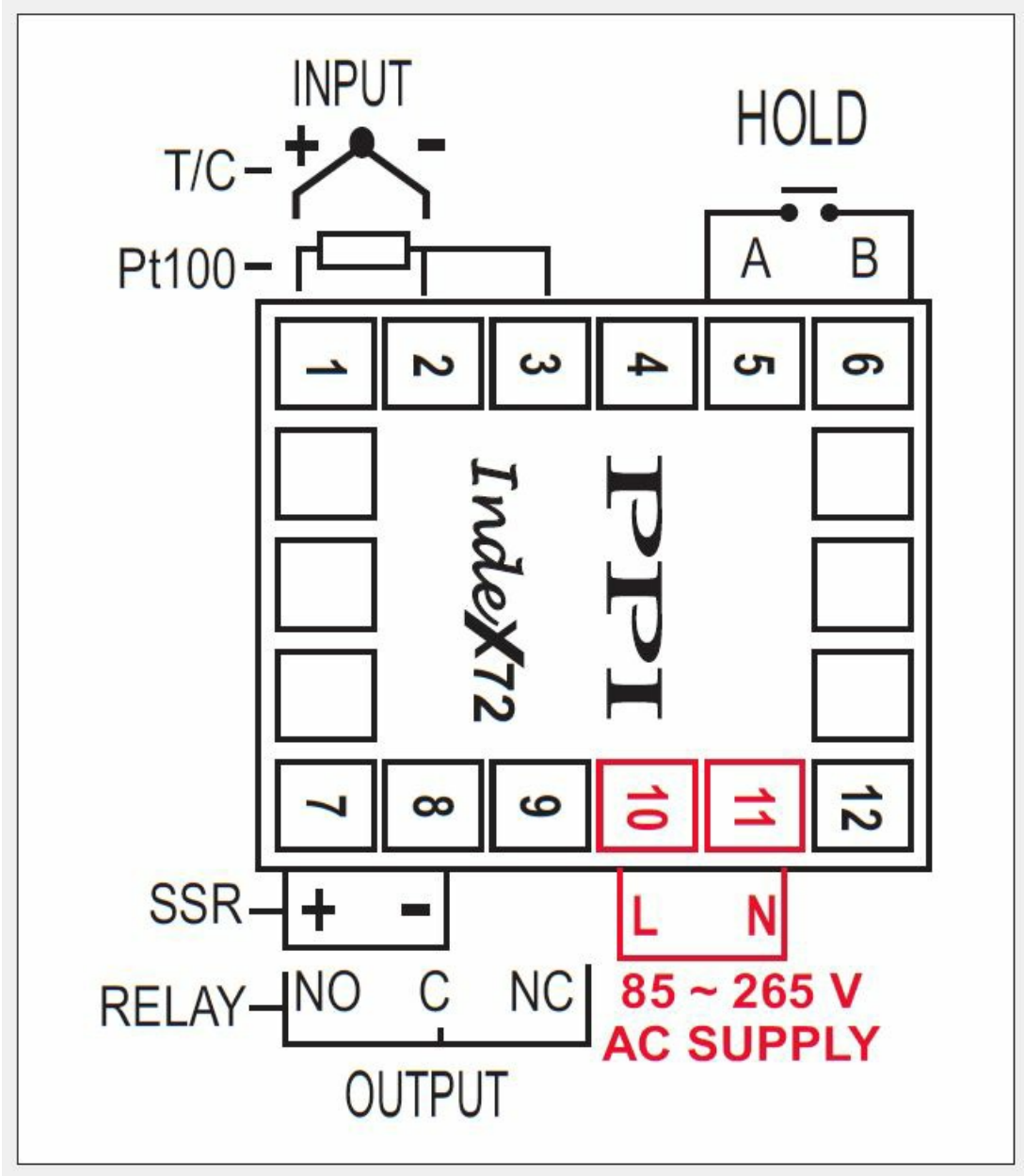
Symbol	Key	Function
PRG	PROGRAM MODE	Keep pressed for approximately 5 seconds to enter / exit Set-up mode.
▼	DOWN	Press to decrease the parameter value. Pressing once decreases the value by one count; holding pressed speeds up the change.
▲	UP	Press to increase the parameter value. Pressing once increases the value by one count; holding pressed speeds up the change.

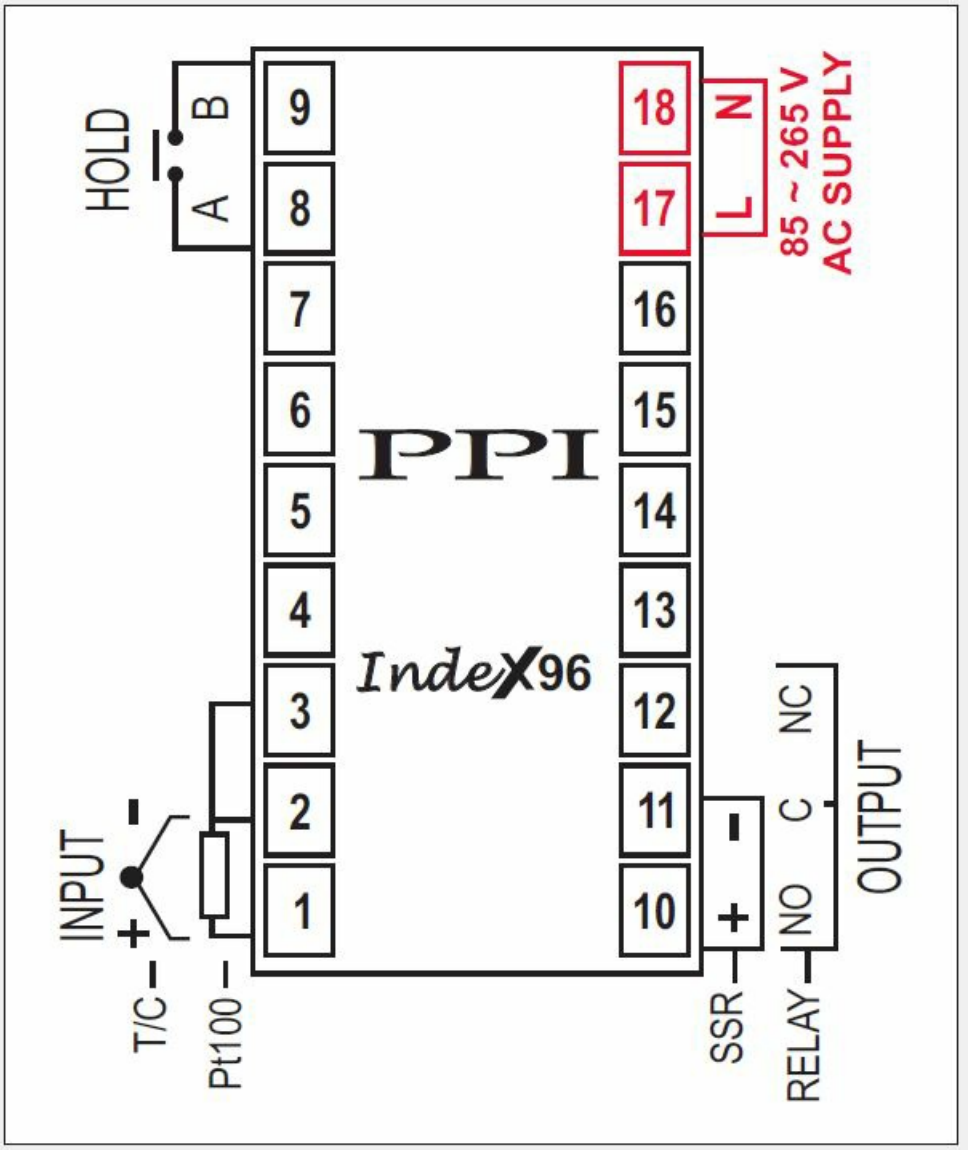
PV Error Indications

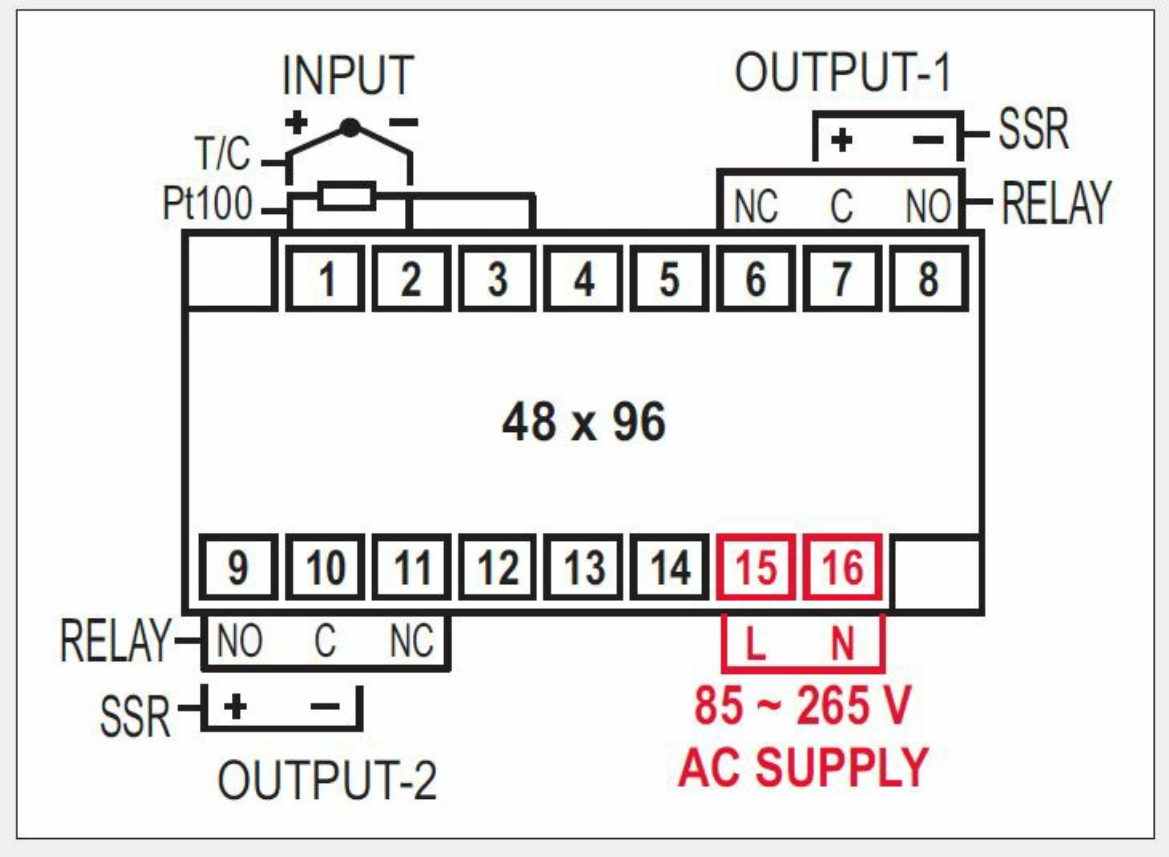
Message	PV Error Type
Or	Over-range (PV above Max. Range)
Ur	Under-range (PV below Min. Range)
OPEn	Open (Thermocouple /RTD broken)

ELECTRICAL CONNECTIONS




INPUT
T/C
+
-
Pt100
HOLD
A
B
1
2
3
4
5
6
IndeX72
PPI
7
8
9
10
11
12
SSR
+
-
L
N
RELAY
NO
C
NC
85 ~ 265 V
AC SUPPLY
OUTPUT

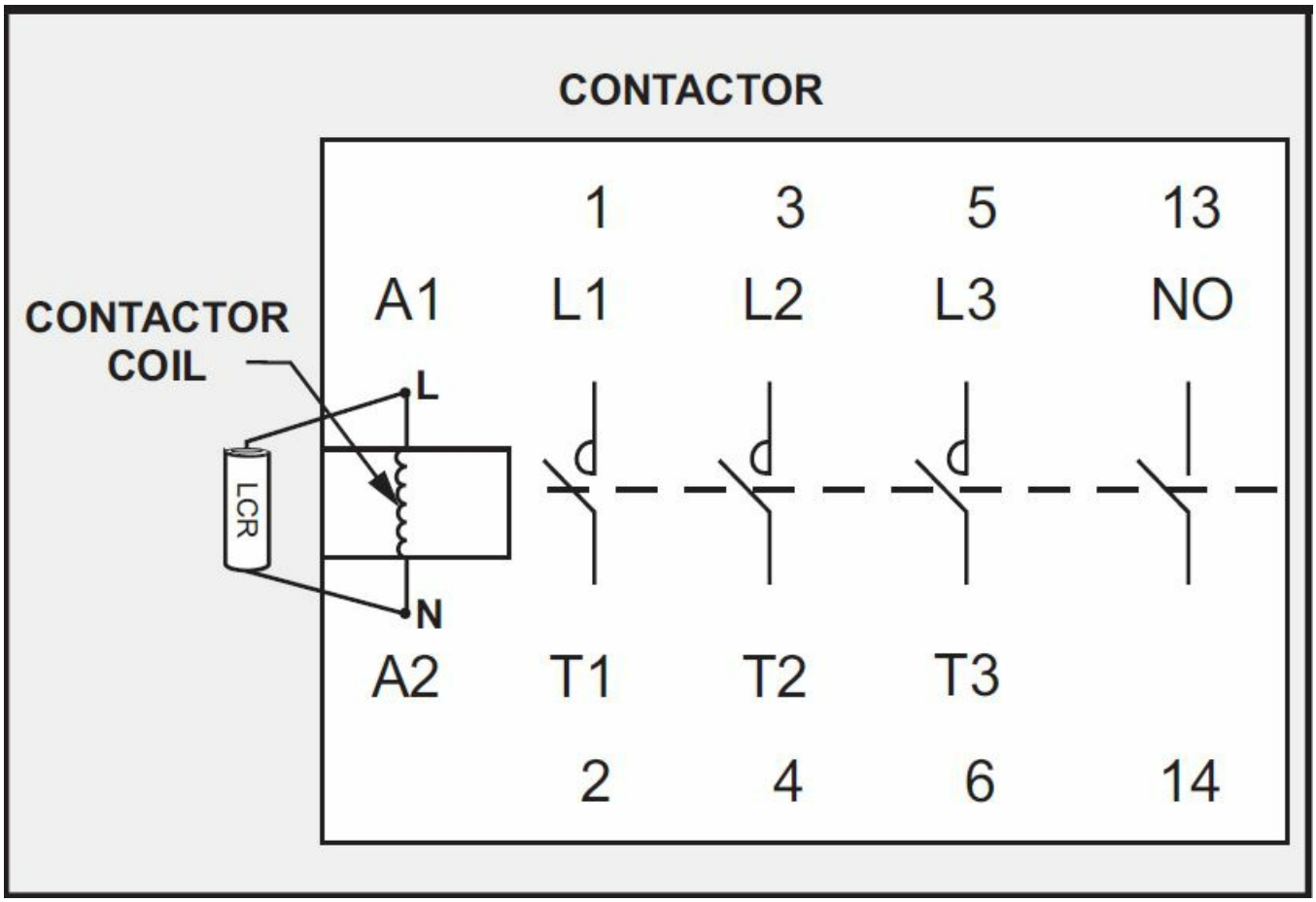




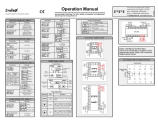
NOTE:- FOR RELAY OUTPUT ONLY LCR is to be connected to contactor coil for suppressing noises. (Refer LCR

connection Diagram given below)

LCR CONNECTION TO CONTACTOR COIL



Documents / Resources

	PPI IndeX Linearised Single Point Temperature Indicator [pdf] Instruction Manual IndeX, IndeX Linearised Single Point Temperature Indicator, Linearised Single Point Temperature Indicator, Single Point Temperature Indicator, Temperature Indicator

References

- Factory Automation Products India | Automation Solutions in India