

Product Manual

8 Channel Scanner

PSC 9084



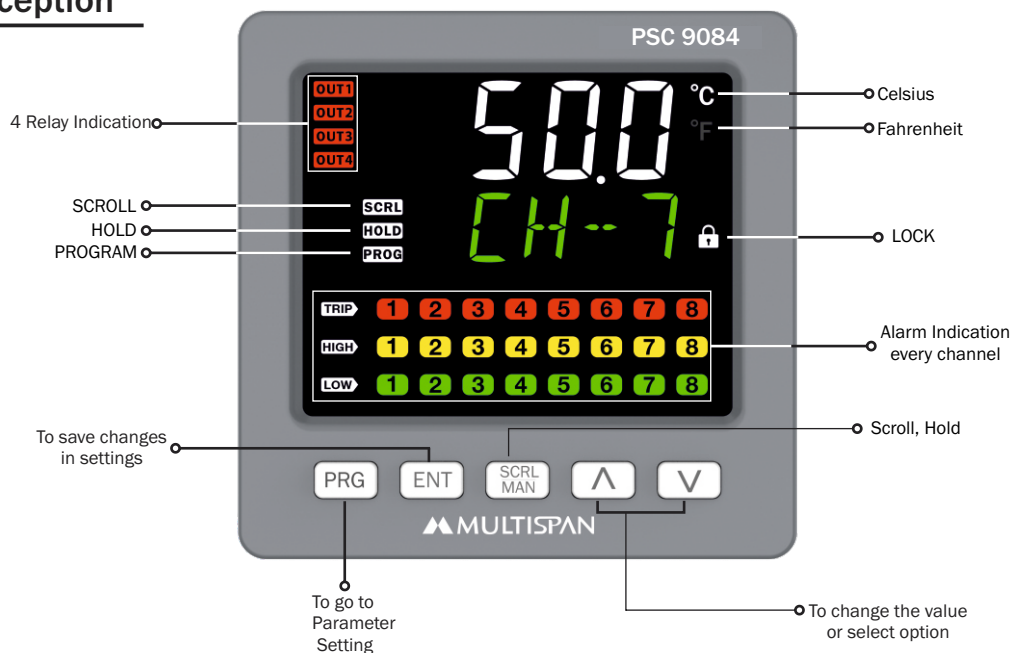
JHB Branch

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Product Inception



Technical Specifications

Model	PSC 9084			
Display	UPPER: 4 Digit 7 seg 0.70", WHITE LED Display LOWER: 4 Digit 7 seg 0.50", GREEN LED Display			
Size (mm)	98 (H) X 98 (W) X 76 (D) mm			
Panel Cutout	92 X 92 mm			
Inputs and Range	Thermocouple J -200 to 800°C J.1 -200.0 to 800.0°C K -200 to 1200°C K.1 -200.0 to 950.0°C R 0°C to 1800°C S 0°C to 1850°C E 0°C to 600°C N -200°C to 1350°C T -200°C to 400°C B 150°C to 1800°C C 0°C to 2350°C L -200°C to 800°C U -200°C to 800°C RTD PT-100/3W -200 to 600°C PT.1/3W -199.9 to 600.0°C	Thermocouple -328 to 1472°F -199.9 to 999.9°F -328 to 2192°F -199.9 to 999.9°F 32°C to 3272°F 32°C to 3362°F 32°C to 1112°F -328°C to 2462°F -328°C to 752°F 302°C to 3272°F 32°C to 4262°F -328°C to 1472°F -328°C to 1472°F RTD PT-100/3W -328 to 1112°F PT.1/3W -199.9 to 999.9°F	Analog input 0 - 10V DC 0 - 20mA DC 4 - 20mA DC 1 - 5V DC	Range -1999 To 9999
Accuracy	J, J.1, K, K.1, R, S, PT, PT.1 : ±0.25% Full Scale ± 1 Digit T, E, N, B, C, L, U : ±0.5% Full Scale ± 1 Digit ANALOG I/P : ±0.25% Full Scale ± 1 Count			
Output	4 Relay (NO-C-NC) 1C/O 5A@230V AC, 5A for resistive load			
Power Supply	100 to 270V AC/DC, 50/60 Hz, Approx 6VA			
Operating Temperature	0°C To 55°C			
Relative Humidity	Up to 95% RH Non Condensing			
Protection Level	IP-65 (Front side) As per IS/IEC 60529 : 2001			

Procedure

1) Do all connections as per the wiring diagram.

To Configure: 1. Input Selection (J, J.1, K, K.1, PT-100, PT.1, R, S, E, N, T, B, C, L, U 0 - 10V DC, 0 - 20mA DC, 4 - 20mA DC, 1 - 5V DC).

2. Relay mode

➤ If 1 Relay per group

LOW

HIGH

HIGH / LOW

➤ If 2 Relay per group

LOW / HIGH

HIGH / TRIP

➤ 3. Set point selection.

➤ 4. Analog range selection. Offset and Correction factor selection

➤ Off set range will be $\pm 20^{\circ}\text{C}$ for J, K, PT-100 temperature input.

➤ Off set range will be $\pm 20.0^{\circ}\text{C}$ for J.1, K.1, PT.1 temperature input.

➤ Offset range will be -999 to 999 for analog input.

➤ Correction factor range will be -999 to 999 **only for analog input**.

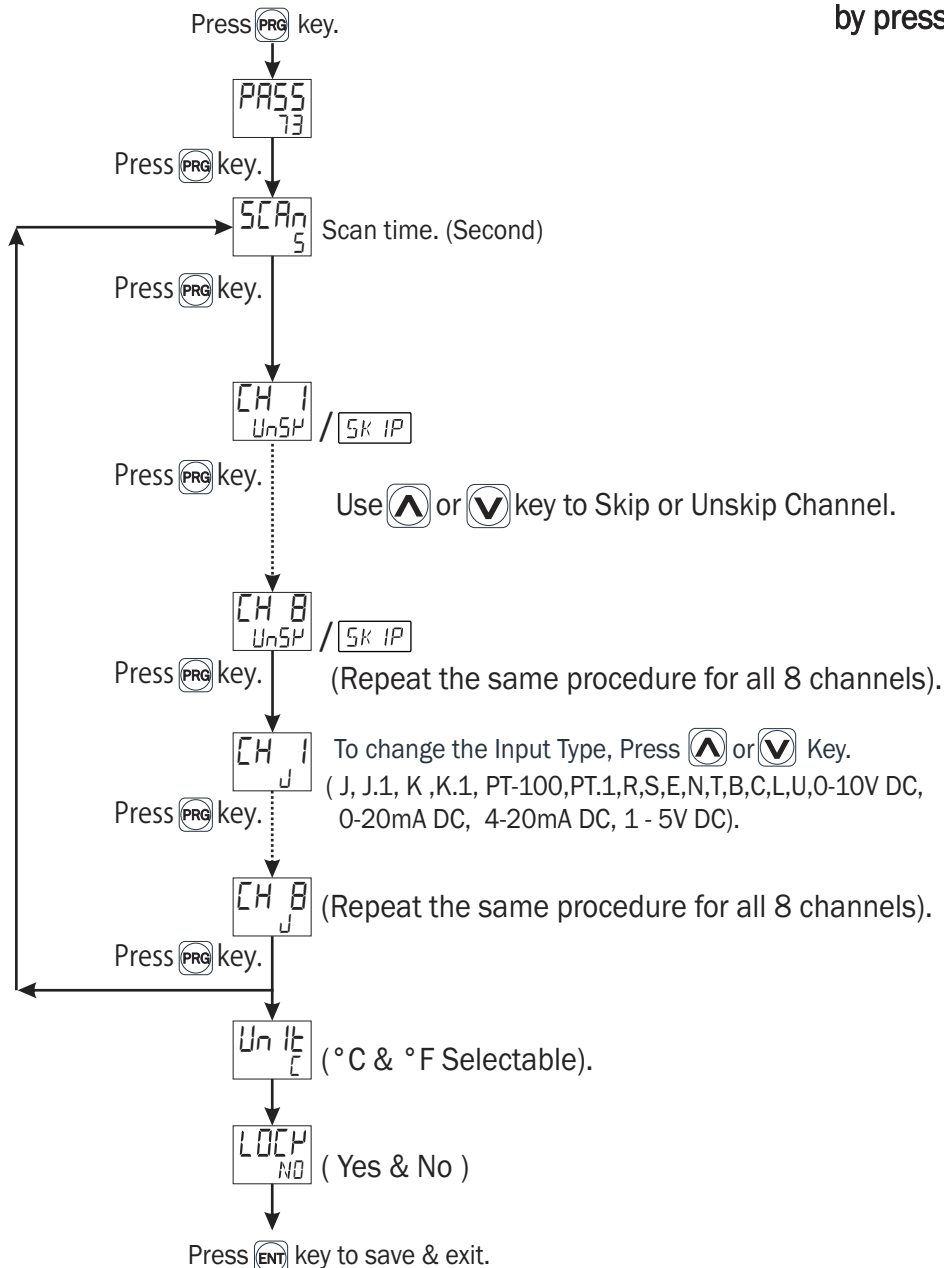
2) Press  key to Change continuous scrolling , Hold.

3) In Hold mode use  &  key to select next channel.

MENU-1

Input Selection

Note :- Values can be changed by pressing  or  keys.



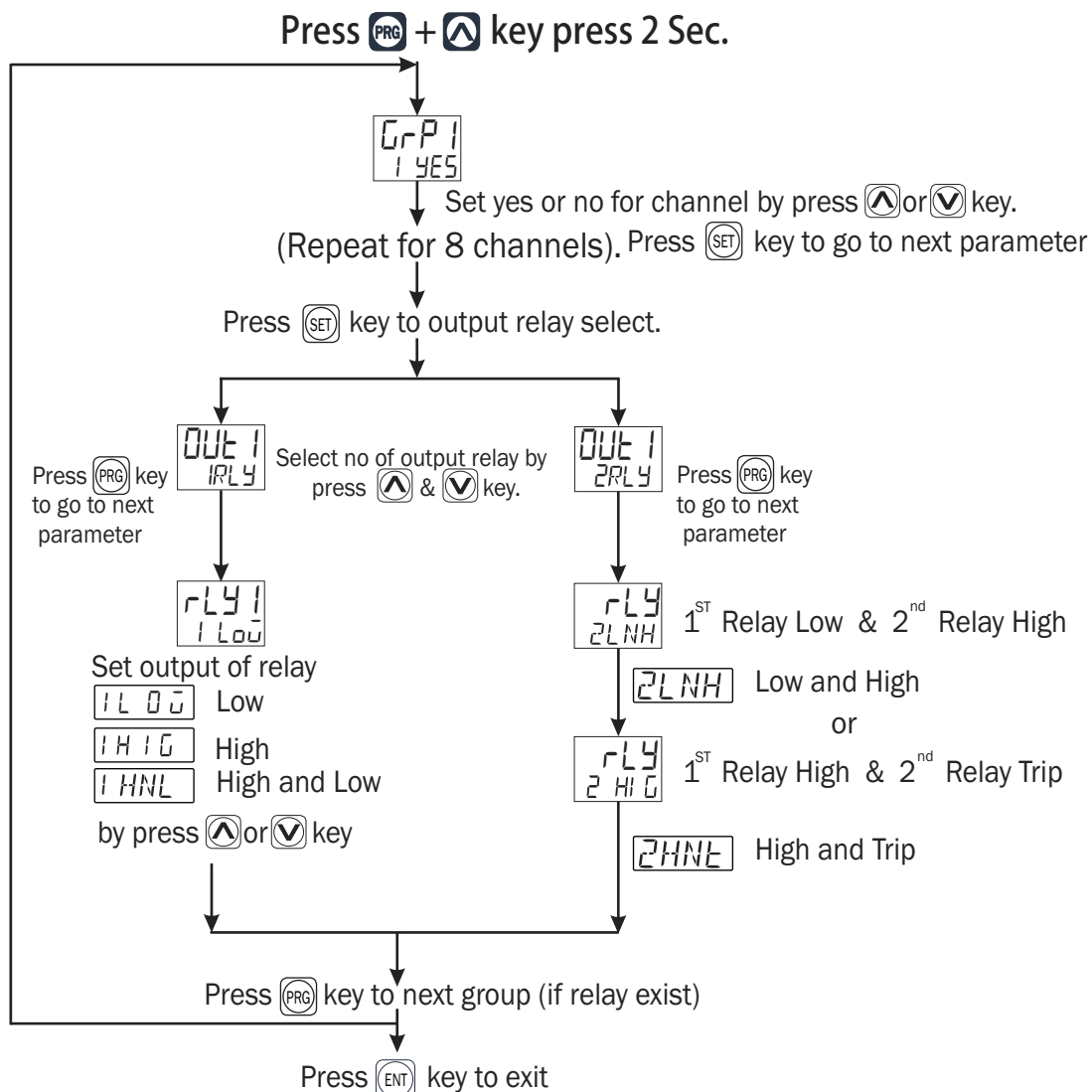
For Example:

In Group No 1, If 1st channel, have a set point as a high alarm, 1 relay.
 In Group No 2 If 2nd channel, have a set point as a low alarm, 1 relay.
 For, 3rd, 4th, 5th, 6th, 7th, 8th channel have a set point as high & low alarm, 2 relay.

Menu: 2

To configurable no.of channel per group. (User can define maximum 4 group & maximum 8 channel/group), relay mode

Relay menu

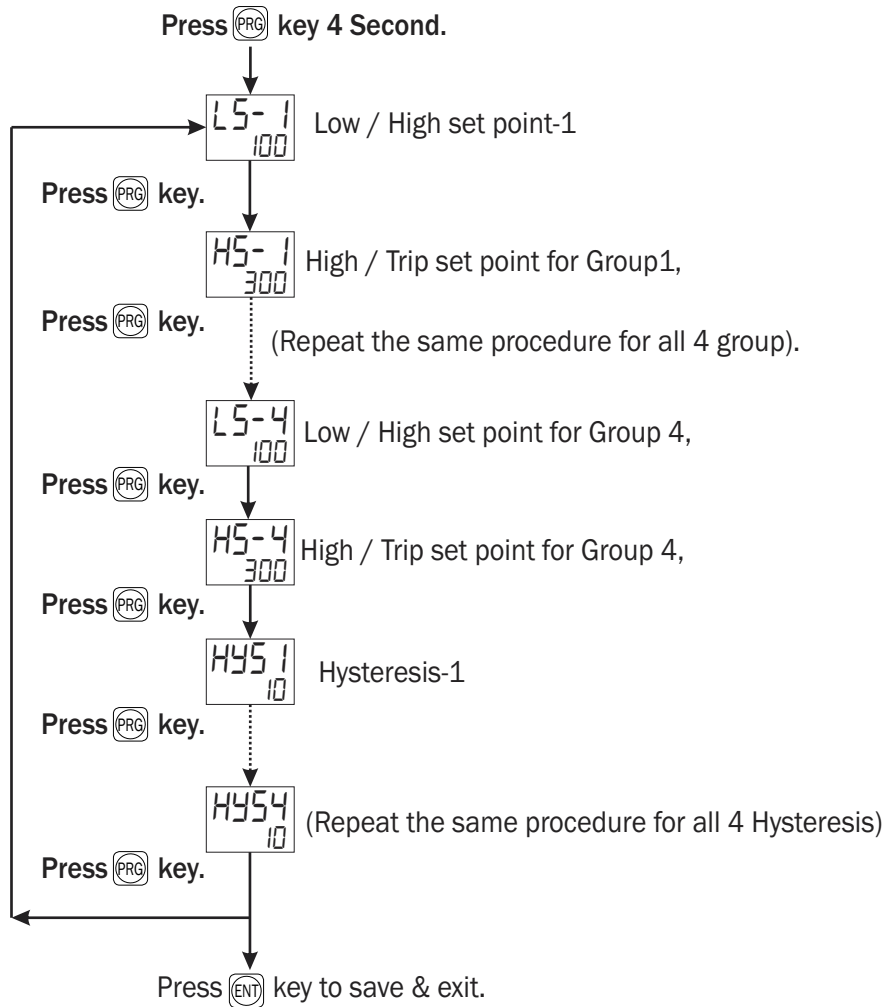


Main Menu: To change set value & hysteresis based on relay mode

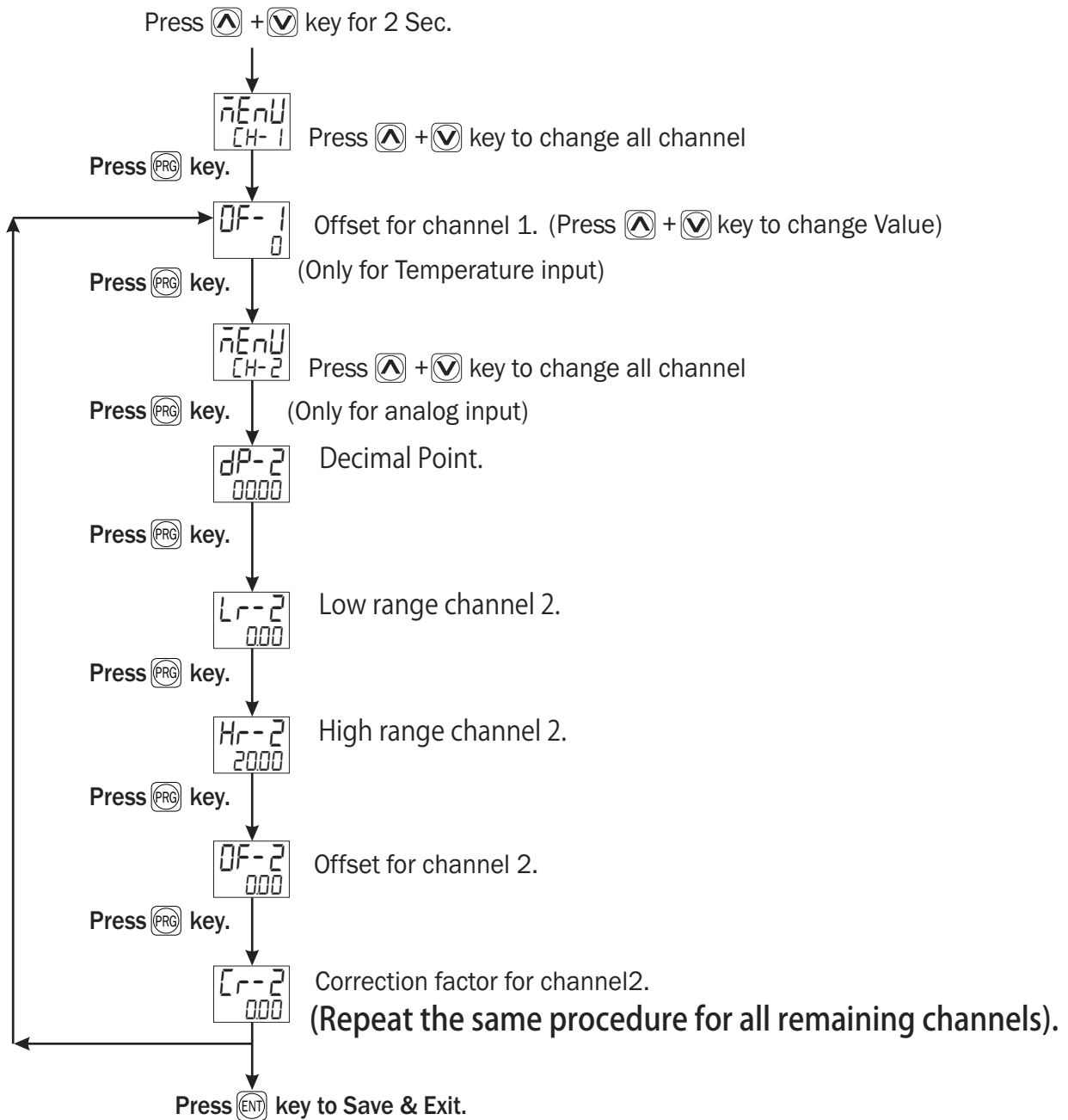
Note: Set value can be changed by  or  key.

MENU-3

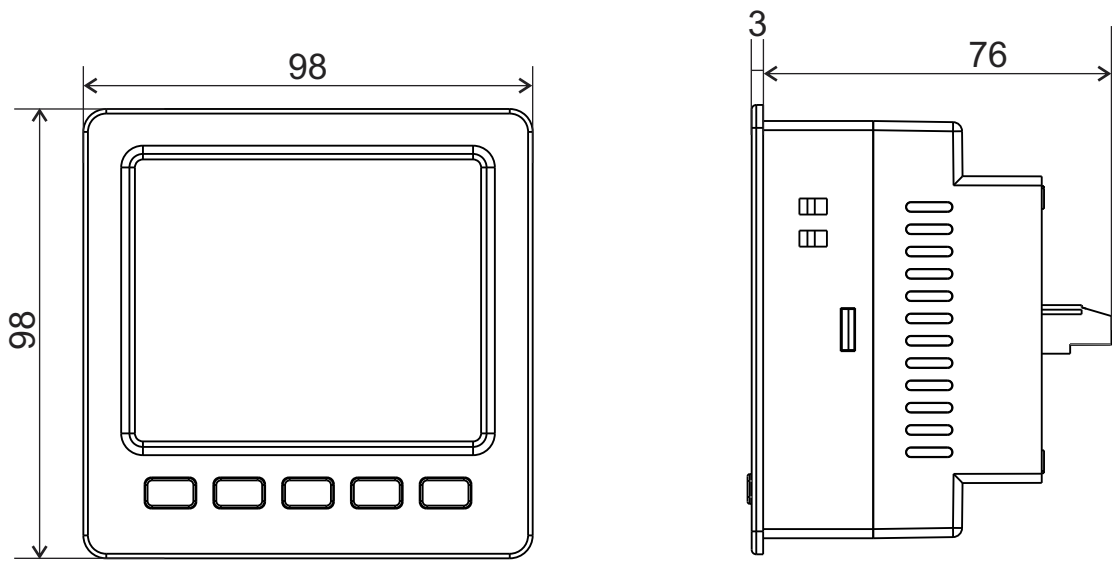
Set point Selection



Offset and Correction factor selection

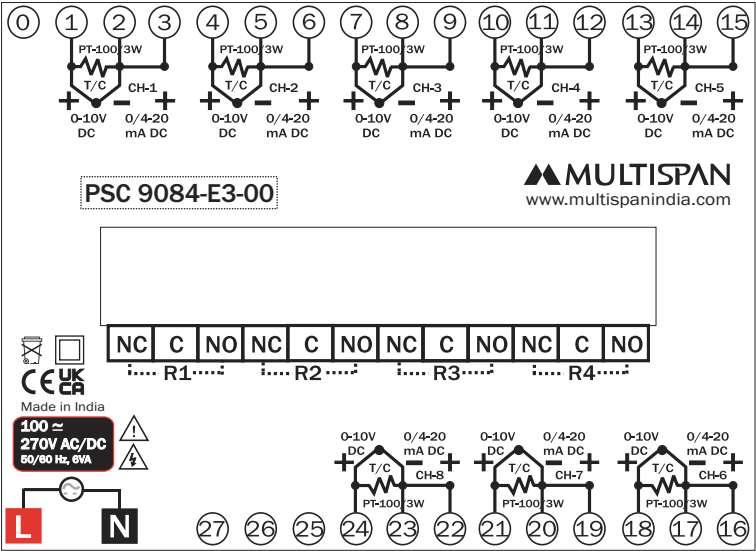


Mechanical Installation



MODEL	A	B	C	D	E	F
DIMENSIONS	98mm	98mm	92mm	92mm	3mm	76mm

Terminal Diagram



Safety Precautions

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If all the equipment is not handled in a manner specified by the manufacturer, it might impair the protection provided by the equipment.

=> Read complete instructions prior to installation and operation of the unit.



WARNING : Risk of electric shock.

Warning Guidelines

- 1) To prevent the risk of electric shock power supply to the equipment must be kept OFF while doing the wiring arrangement. Do not touch the terminals while power is being supplied.
- 2) To reduce electro magnetic interference, use wire with adequate rating and twists of the same of equal size shall be made with shortest connection.
- 3) Cable used for connection to power source, must have a cross section of $(1\text{mm})^2$ or greater. These wires should have insulations capacity made of at least 1.5kV.
- 4) When extending the thermocouple lead wires, always use thermocouple compensation wires for wiring for the RTD type, use a wiring material with a small lead resistance (5Ω max per line) and no resistance differentials among three wires should be present.
- 5) A better anti-noise effect can be expected by using standard power supply cable for the instrument.

Installation Guidelines

- 1) This equipment, being built-in-type, normally becomes a part of main control panel and in such case the terminals do not remain accessible to the end user after installation and internal wiring.
- 2) Do not allow pieces of metal, wire clippings, or fine metallic fillings from installation to enter the product or else it may lead to a safety hazard that may in turn endanger life or cause electrical shock to the operator.
- 3) Circuit breaker or mains switch must be installed between power source and supply terminal to facilitate power 'ON' or 'OFF' function. However this mains switch or circuit breaker must be installed at convenient place normally accessible to the operator.
- 4) Use and store the instrument within the specified ambient temperature and humidity ranges as mentioned in this manual.

Mechanical Installation

- 1) Prepare the panel cutout with proper dimensions as show above.
- 2) Fit the unit into the panel with the help of clamp given.
- 3) The equipment in its installed state must not come in close proximity to any heating source, caustic vapors, oils steam, or other unwanted process by products.
- 4) Use the specified size of crimp terminal (M3.5 screws) to wire the terminal block. Tightening the screws on the terminal block using the tightening torque of the range of 1.2 N.m.
- 5) Do not connect anything to unused terminals.

Maintenance

- 1) The equipment should be cleaned regularly to avoid blockage of ventilating parts.
- 2) Clean the equipment with a clean soft cloth. Do not use isopropyl alcohol or any other cleaning agent.
- 3) Fusible resistor must not be replaced by operator.

Product improvement and upgrade is a constant procedure. So for more updated operating information and support, Please contact us