



# MULTISPAN

## User Manual

### MS-1208



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## Technical Specification

### INPUT:

	Input	Range
Input Types	J	0 to 600 °C DP Selectable
	K	0 to 1200 °C DP Selectable
	PT-100	-99 to 400 °C DP Selectable
Resolution	J,K,PT-100/3W = 1 °C	

### DISPLAY, KEY & LED:

Display	UPPER : 4 Digit 7 Seg 0.68", White LED LOWER : 4 Digit 7 Seg 0.43", Green LED
Key	SET, ENT, DEC, & INC

### DIMENSION:

Size	101 (H) x 101 (W) x 54(D) mm
Panel Cutout	92 (H) x 92 (W) mm

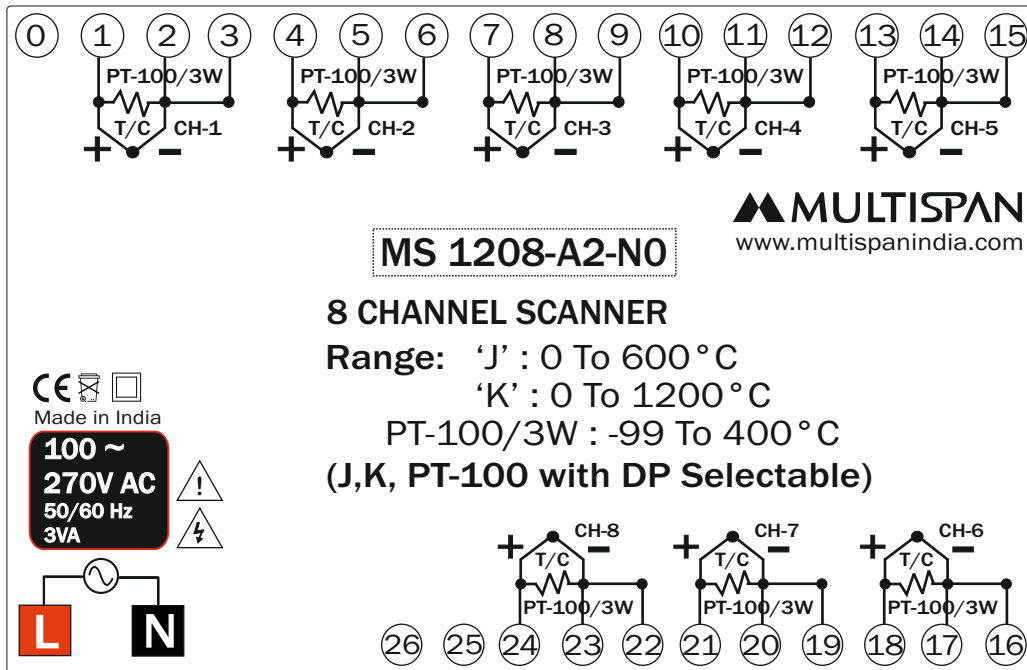
### AUXILIARY SUPPLY:

Supply voltage	100 To 270V AC,50/60 Hz,
Power consumption (VA RATING)	Approx 3VA @ 230V AC MAX,

## ENVIRONMENT CONDITION:

Operating Temp.	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

## Terminal Diagram



## Key Operation

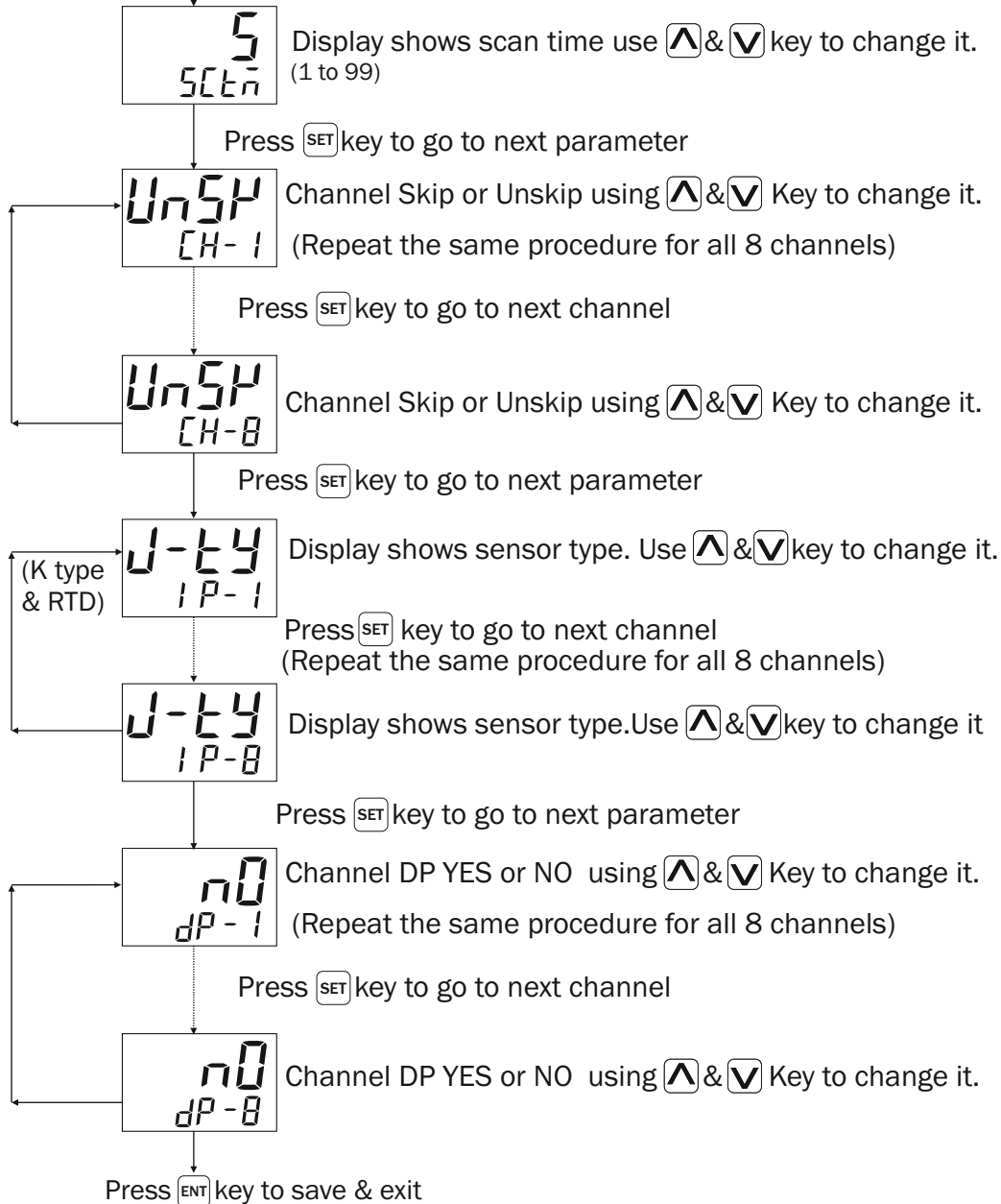
- \* Press **SET** key for 3 sec to enter in set value menu.
- \* Press **▲** & **▼** key to change the parameter setting.
- \* Press **SET** + **▲** key for 5 sec to enter in Modbus menu.
- \* Press **▲** + **▼** key for 5 sec to set OFFSET.
- \* Press **ENT** key to in scroll & hold mode.

## Procedure

- 1) Do all connection as shown in connection diagram.
- 2) To enter in parameter menu, press **SET** key for 3 sec  
Configure:
  3. Scan time, 1 to 99
  4. Sensor Selection ( J, K or PT-100 Selectable & DP Selectable) (1-8) Channel
  5. Skip or unskip channel (1-8) Channel
  - 6) If needed to add offset, press **▲** + **▼** together for 5 Sec.  
Set offset for each channel if required.(1-8) Channel  
Off set range will be -99 °C to + 99 °C.
  - 7) Press **ENT** Key for continuous scrolling or manual scrolling.
  - 8) In hold mode use **▲** & **▼** Key to select next channel.

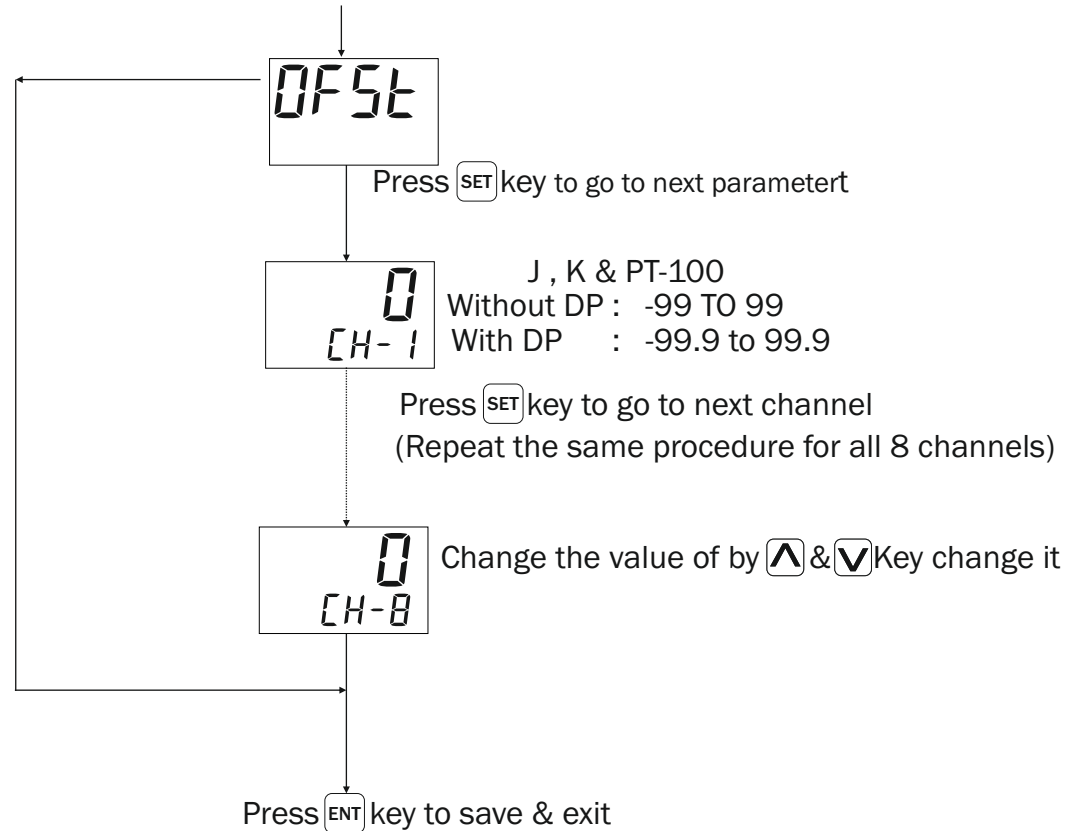
# Parameter Menu

Press **SET** key for 3 Sec to enter in menu

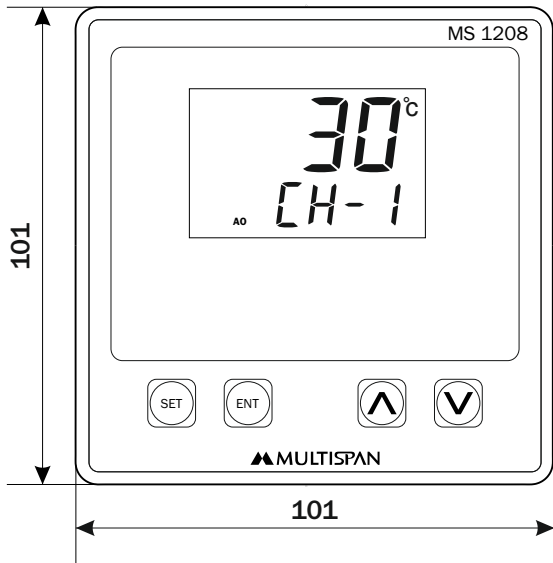


# Offset Setting

Press **^** & **v** key for 5 sec to offset parameter

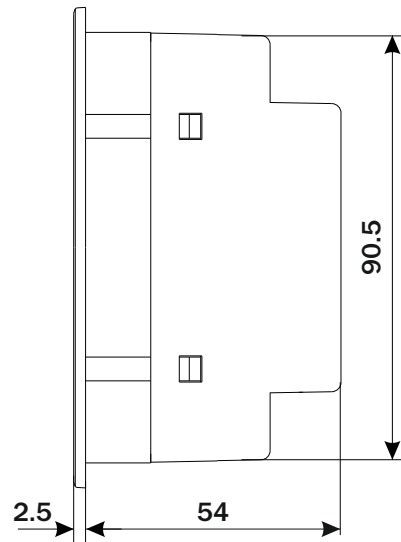


# Mechanical Dimemnsions & Installation



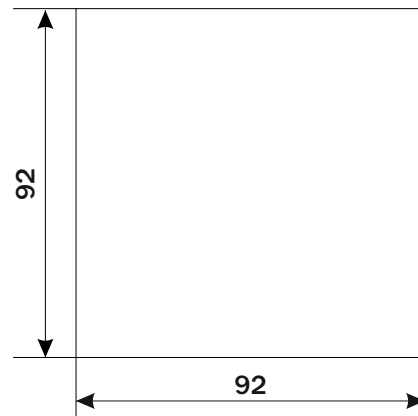
**FRONT VIEW**

All dimensions are in mm



**RIGHT SIDE VIEW**

## Panel Cutout



## SCROLL & HOLD MODE



Press **ENT** key to in scroll & hold mode



## SAFETY PRECAUTION

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



**WARNING** : Risk of electric shock.

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 1mm 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 ( $5 \Omega$  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 GUIDELINES

1. Prepare the panel cutout with proper dimensions as shown 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, oil steam, or other unwanted process Byproducts.
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 0.5 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.