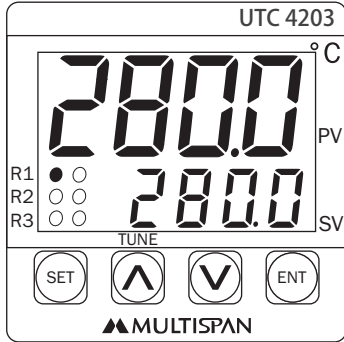




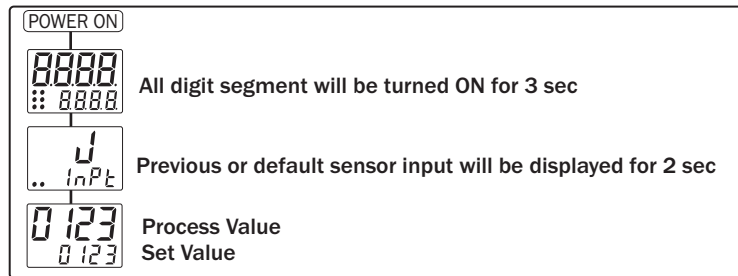
**Technical Specification**

<b>Model</b>	UTC-4203
<b>Display</b>	UPPER:- 4 Digit 7 seg 0.56", red LED Display LOWER:- 4 Digit 7 seg 0.33", green LED Display
<b>Size (mm)</b>	48 (H) X 48 (W) X 95 (D) mm
<b>Panel Cutout</b>	45 X 45 mm
<b>Input</b>	J, K, PT-100 (selectable)
<b>Temperature Range</b>	J: 0 to 600 °C / K: 0 to 1200 °C / PT-100: -99 to 400°C, PT.1: -99.0 to 400.0 °C
<b>Control Action</b>	PID/TP/ ON-OFF (selectable)
<b>Output</b>	3Relay, 1C/O Contact, 5A,230V AC,
<b>Power Supply</b>	100 to 270V AC,50/60 Hz, Approx 4VA
<b>Protection Level (As per request)</b>	IP-65 (Front side) As per IS/IEC 60529 : 2001
<b>Operating Temperature</b>	0 °C To 55 °C
<b>Relative Humidity</b>	Up to 95% RH Non Condensing

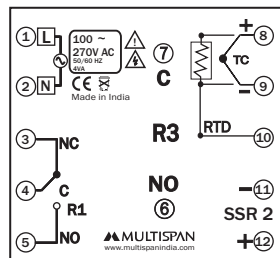


**Note:**

- 1) If sensor connection is reversed, display will show "5rE" message.
- 2) If sensor is not connected, display will show  $\square P E n$  message.
- 3) Every time the instrument is turned ON, following pattern will be displayed



**Connection 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.

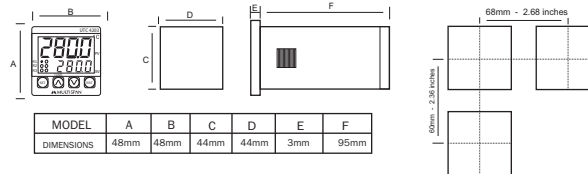
**Warning Guidelines**

- 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 1mm<sup>2</sup> 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**

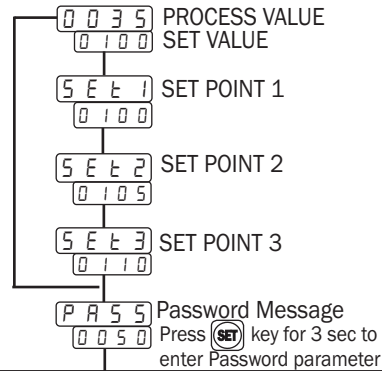
- 1) The equipment should be cleaned regularly to avoid blockage of ventilating parts.
- 2) Clean the equipment with a clean soft cloth. Do not use isopropyl alcohol or any other cleaning agent.
- 3) Fusible resistor must not be replaced by operator.

Product improvement and upgrade is a constant procedure. So for more updated operating information and support, Please contact our helpline : +91-9978991474/76/82 or Email at marketing@multispanindia.com Ver: 2008

### Key Operation

- 1) Press Key to go parameter setting.
- 2) Press or key to change value or to select option.
- 3) Press Key to save change in setting
- 4) Press key for 6 sec to start/stop PID AUTO TUNING
- 5) Press + key for 3 sec to go to factory setting mode.

### Set Point Setting



1 2 3 4 PV  
1 2 3 4 SV

### PID AUTO-TUNING

Press key for 6 sec to start/stop  
PID auto-tuning

1 2 3 4  
1 2 3 4  
F C 5 B  
9 E 5 / n 0

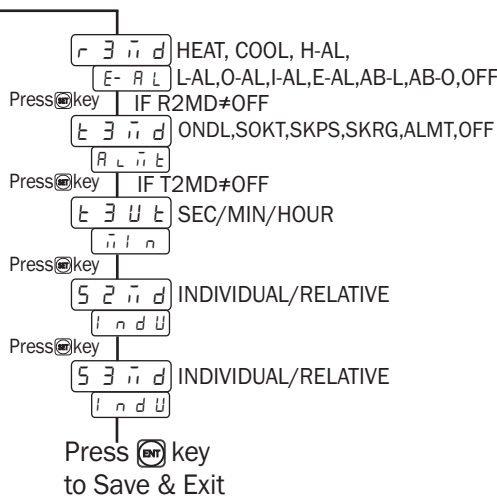
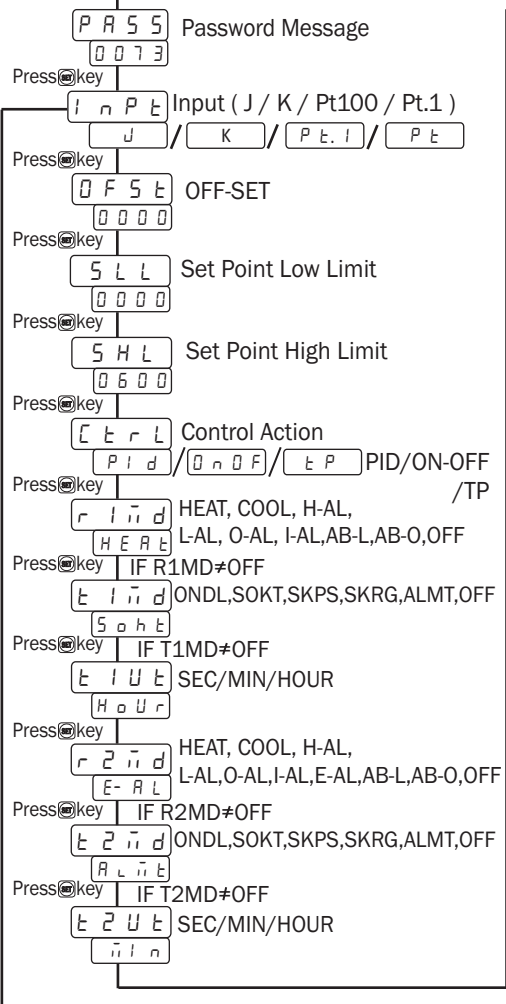
Press + key for 3 sec

yes : press key to apply factory set values as shown in table.  
n0 : press key to escape from factory setting.

FACTORY SETTING		
SR.	PARAMETER	VALUES
1	PB	020.0
2	IT	0300
3	DT	0075
4	CT	15 sec
5	MR	0°C
6	OFFSET	0°C
7	HYSTERESIS	3°C
8	DELAY TIME	6 sec

### Basic Configuration

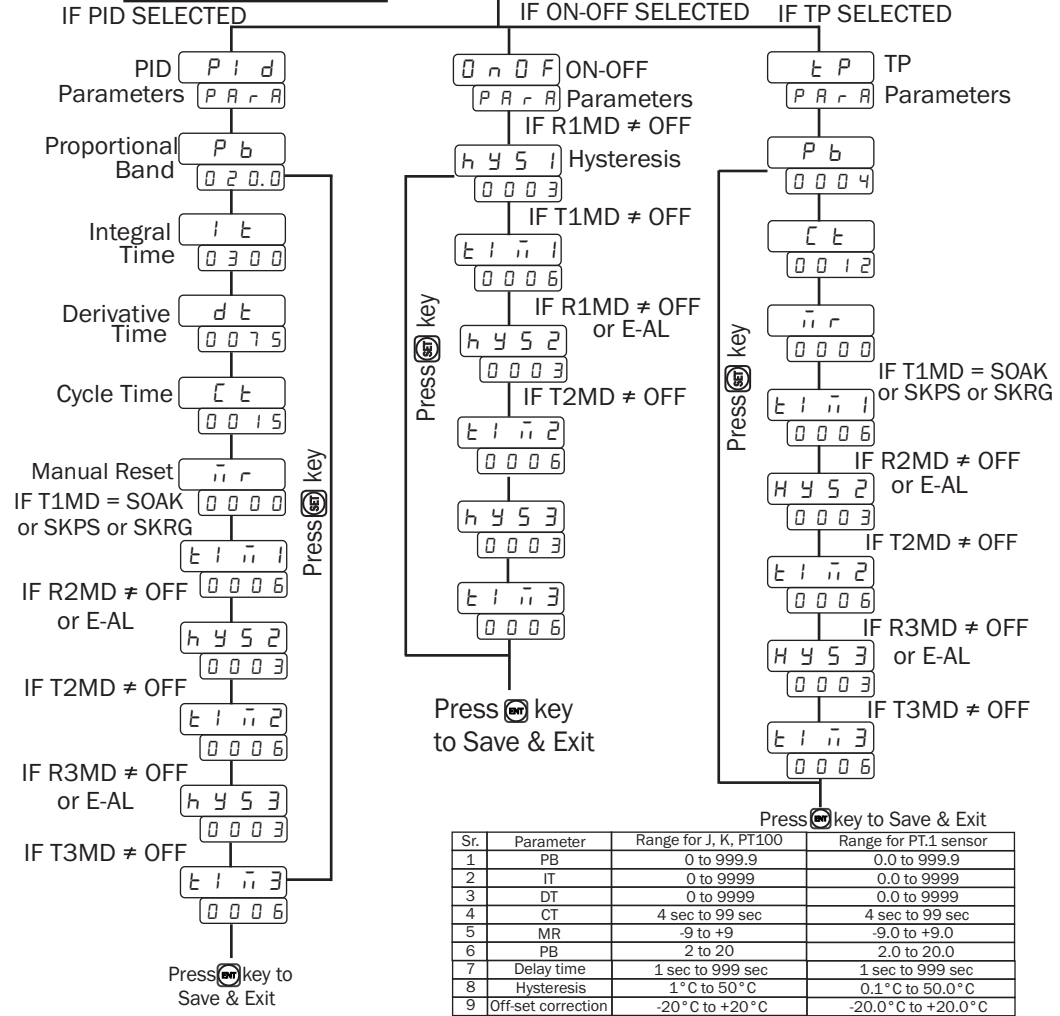
**TO ENTER BASIC CONFIGURATION SETTING, ENTER "73"**



Press key to Save & Exit  
OR  
Press key to INPT Setting

### Control Parameter

**TO ENTER CONTROL PARAMETER SETTING, ENTER "37"**



Sr.	Parameter	Range for J, K, PT100	Range for PT.1 sensor
1	PB	0 to 999.9	0.0 to 999.9
2	IT	0 to 9999	0.0 to 9999
3	DT	0 to 9999	0.0 to 9999
4	CT	4 sec to 99 sec	4 sec to 99 sec
5	MR	-9 to +9	-9.0 to +9.0
6	PB	2 to 20	2.0 to 20.0
7	Delay time	1 sec to 999 sec	1 sec to 999 sec
8	Hysteresis	1°C to 50°C	0.1°C to 50.0°C
9	Off-set correction	-20.0°C to +20.0°C	-20.0°C to +20.0°C