

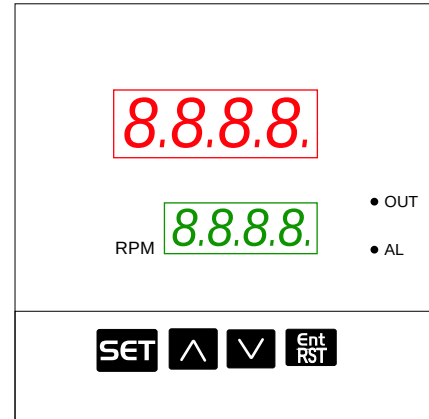
# USER MANUAL

## PID or ON/OFF Temperature Controller

(Double & Single Display)

MODEL NO: SCS-TR-96

- Display : LED and Push key
  - PV Display : To Display the process Value or parameter type
  - SV Display : To Display set point, Parameter operation read value manipulated Variable or set value of the parameter
  - Out : Indicator will on when the Output is on
  - Alm : Indicator will on when the Alarm is on
- SET KEY : You can go in set mode
- UP KEY : Press this key to Increase Value displayed on the SV display, Hold down this Key to speed up the Incremental action
- DOWN KEY : Press this key to Decrease values displayed on the SV Display Hold down this key to speed up the decrements.
- ENTER KEY : Press this key to store all set value in memory.  
When Alarm is on Press down key to disable Alarm



### 2. SETTING

- You can change all value by up key/Down Key  
Press Enter Key to exit & save from any step else go to next step  
Alarm output is optional so Consider this step of setting accordingly.

#### A. SETTING OF SET TEMPERATURE

| LED Display | Explanation                      | Default      |
|-------------|----------------------------------|--------------|
| SEt         | Press set key to Set Temperature | Last value   |
| ALrñ        | Press set key to Set Alarm       | - 25 to 25 C |

- Press Enter key to save & Exit.

#### B. Setting of Tune & calibration error (For P I D control )

Press set key for 5 second

| LED Display | Explanation                                                                                                                                                 | Default |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| CT          | CT For Relay                                                                                                                                                | 01      |
| tUnE        | Select tune Function else go to next step.                                                                                                                  | n0      |
| tUnE        | If you want to do auto tune then press up key Yes & press enter key                                                                                         | YES     |
| C.Err       | Press set key to Set calibration error if you want to do error correction in Process temperature than go to next step else to step (B) by pressing set key. | n0      |
| C.Err       | Press UP key to select yes for calibration                                                                                                                  | YES     |
| C.Err       | Press Set key                                                                                                                                               | 0000    |
|             | Press Enter key to save exit                                                                                                                                |         |

#### C. Setting of Hy, Delay & calibration error (for on/off control)

- Press key for for 5 second

| LED Display | Explanation                                                                                                                                                 |      |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| HY          | Hysteresis For Relay                                                                                                                                        | 02   |
| dEL AL      | Delay For Cooling Control                                                                                                                                   | 05   |
| C.Err       | Press set key to Set calibration error if you want to do error correction in Process temperature than go to next step else to step (B) by pressing set key. | n0   |
| C.Err       | Press UP key to select yes for calibration                                                                                                                  | YES  |
| C.Err       | Press Set key                                                                                                                                               | 0000 |
|             | Press Enter key to save exit                                                                                                                                |      |

## Features :-

- Microcontroller based, Single or Double display
- Supply 220 V Ac
- Input J,K or RTD selection
- Output : 1. Relay Contact or SSR, 2. Alarm contact or Buzzer
- PID or On/Off Control selection
- Heating or Cooling Application selection
- Range : J type 0-750c
- K type 0-1200c,
- RTD.1 type -50.0 to 400.0
- RTD.type 0 to 400
- Temperature As per range adjustable in set mode-
- Alarm 0-0 to 25.0 or 0 to 250 as per range adjustable
- Ct 1 to 60 for ssr output & 10 to 120 second for Relay output adjustable
- Auto tuning require for pb, It & dt value
- Hysteresis 0.2 or 2 to 25.0c or 25c adjustable as per range selection for RTD
- Hysteresis 2 to 250c adjustable as per range selection for J & K Type
- Delay 0 to 250 second adjustable for cooling control
- OPEn display if Sensor break & -rEV display if connections reverse .
- Relay trip if sensor breaks, connection open or connection reverse.

Calibration Error correction by front key switch (No preset setting)

### D. Selection control & Sensor type Short Configlink (Back side terminal)

Press up key + Enter key 5 second

| LED Display  | Explanation                                                                                                                             | Default      |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <i>SEn</i>   | Press set key to set to select sensor<br>(Temperature sensor type & range for See detail)                                               | <i>J-T-C</i> |
| <i>r.n!n</i> | Press set key to set minimum setting lock temperature                                                                                   | <i>0000</i>  |
| <i>r.nR</i>  | Press set key to set minimum setting lock temperature                                                                                   | <i>0400</i>  |
| <i>Cntr</i>  | Press set key to select control function<br>(PID or on/off control selection)                                                           | <i>PId</i>   |
| <i>TYPE</i>  | Press set key to select type of output<br>(Heating or cooling Application for on/off selection)<br>Press Enter key to save & exit<br>Or | <i>SSr.</i>  |
| <i>Pb</i>    | Press set key for 5 second at TYPE-SSR selection for Pb value                                                                           | <i>4.0</i>   |
| <i>It</i>    | Press set key                                                                                                                           | <i>180</i>   |
| <i>dt</i>    | Press set key                                                                                                                           | <i>30</i>    |
|              | Press set key to save & exit                                                                                                            |              |

### Note :

Open Contiglink (Back side Terminal)

Check all Setting

## **Connection Diagram**

