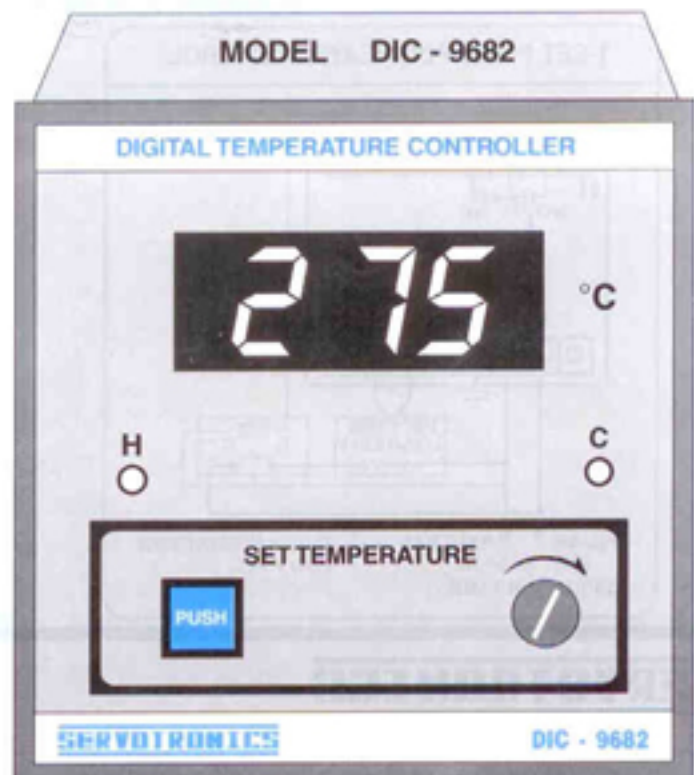
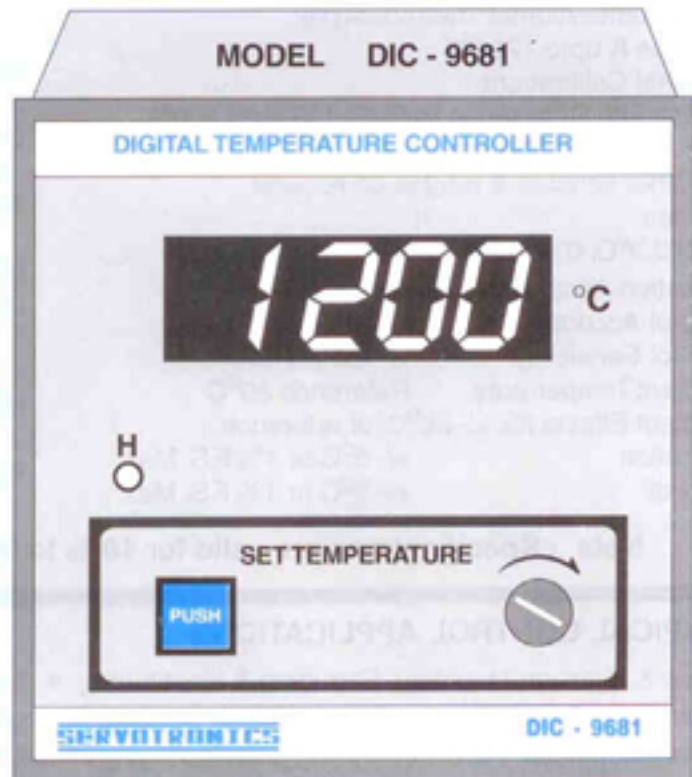


These electronic instruments have been designed to provide industry with  
★ ACCURATE ★ RELIABLE ★ VERSATILE ★ COMPACT ★  
tools for various control applications.

DIGITAL TEMPERATURE  
CONTROLLERS



## GENERAL SPECIFICATIONS

**Model Nos.** 1- set point DIC - 7281, DIC - 9681  
 2- set point DIC - 7282, DIC - 9682  
**Sizes in mm.** 72x72x110, 96x96x100

### Input Sensor Calibration

- (i) Iron-Constantan Thermocouple Type J upto 600°C
- (ii) Chromel-Alumel Thermocouple Type K upto 1200°C

### Optional Calibrations

- (i) Platinum Resistance Bulb Pt-100 upto 400°C
- (ii) Pt/Rh 13-Pt Thermocouple Type R upto 1600°C
- (iii) Other sensors & ranges on request.

### Ranges

0 - 199.9°C, 0 - 400°C, 0-600°C, 0-1200°C.

**Indication Accuracy** : +/- 1% F.S.  
**Control Accuracy** : +/- 1.5% F.S.  
**Control Sensitivity** : +/- 0.5% F.S.  
**Ambient Temperature** : Reference 30°C  
**Ambient Effects for +/- 20°C. of reference :**  
**Indication** : +/- 5°C or 1% F.S. Max  
**Control** : +/- 5°C or 1% F.S. Max.

**Relay Status** : Relay energised for Heating (or cooling) operation.  
**Relay Contact Rating** : 5 Amperes at 230V AC for resistive loads.

**Thermocouple Input** : Built in cold junction compensation circuit automatically and continuously corrects for changes in the ambient temperature.

**Sensor Open** : The controller reacts as for temperature above set-point

**Control Option** : On - Off /PD standrad

**Control Version** : Single set-point standard

**Temperature Setting** : Control set-point Potentiometer.

**Power Supply** : 230V AC, 50 Hz, 3 VA nominal.

**Line voltage Effects for +/-20% of nominal,**

**Indication** : 0.1 % F.S. Max.

**Control** : 0.2 % F.S. Max.

**Housing /Case Style** : Sheet metal body with front ABS Bezel.

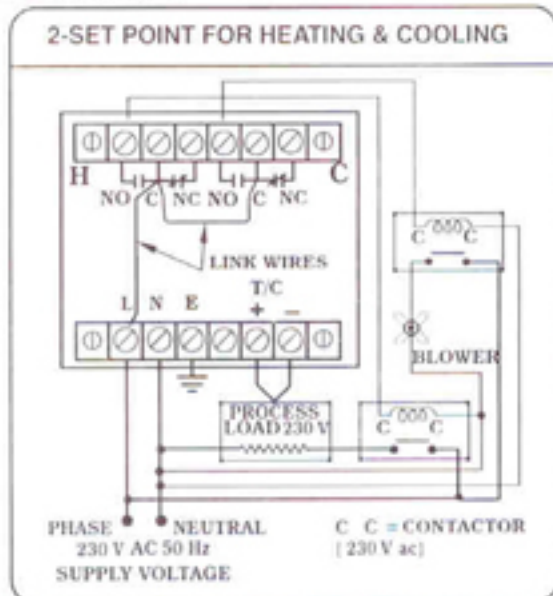
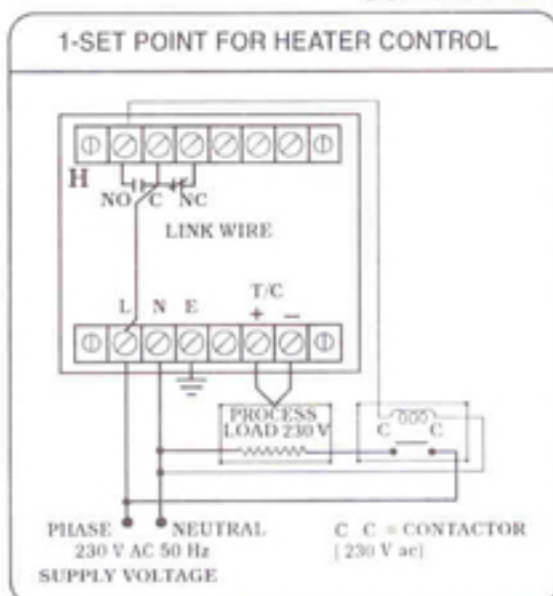
**Mounting** : By two M.S. side clamps.

**Note** : Specifications are valid for 10 % to 90% of the full scale (F.S.) range.

## TYPICAL CONTROL APPLICATIONS

- Blow & Injection Moulding, Extruding & Heat curing • Textile & Chemical Processes
- Furnaces, Ovens, Diers & Baths • Metal Treating, Annealing, Hardening, Electroplating.
- Pharmaceutical, Food Processing and Packaging • Cold Storage, Refrigeration and Air-conditioning

## SCHEMATIC WIRING DIAGRAMS



## SERVOTRONICS

50, Adarsh Industrial Estate, Chakudia Mahadev Road, Rakhial, Ahmedabad - 380 023. (INDIA)  
 TEL : 91-079- 2743315, 2760578. FAX : 91-079- 2742814

Continuous developments to suit the latest design techniques may necessitate change in the above details without notice.