

ELECTRONIC INSTRUMENTS FOR THE MEASUREMENT AND CONTROL OF TEMPERATURE

SERVOTRONICS

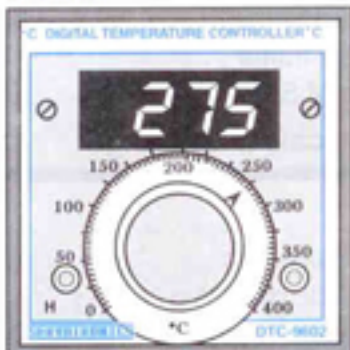
These electronic instruments have been designed to provide industry with
 ★ ACCURATE ★ RELIABLE ★ VERSATILE ★ COMPACT ★
 tools for various control applications.

DIGITAL TEMPERATURE CONTROLLERS

FRONT FRAME
96 MM X 96 MM



DTC - 9601



DTC - 9602



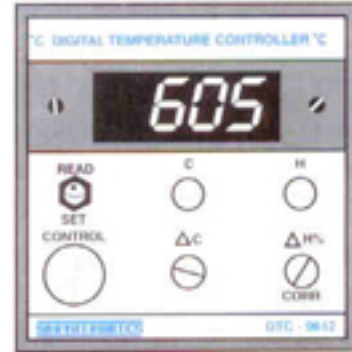
DTC - 9621



DTC - 9622



DTC - 9611



DTC - 9612



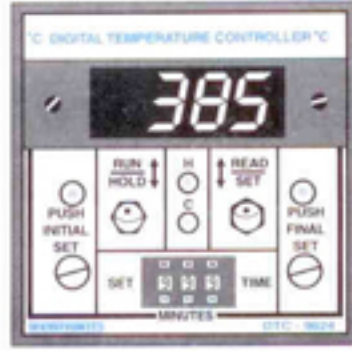
DTC - 9661



DTC - 9662



DTC - 9614



DTC - 9624



TWC - 9631



TWC - 9632

A WIDE RANGE TO SELECT FROM TO SUIT YOUR SPECIFIC APPLICATION AND YOUR BUDGET

GENERAL SPECIFICATIONS

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 :

- 1). 3 - Digit models : 0 - 199°C, 0 - 399°C, 0 - 999°C
- 2). 3 1/2 - Digit models : ± 99.9°C, 0 - 199.9°C,
0 - 400°C, 0 - 1200 C, 0 - 1600 °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 Setpoint.

Control Option : On - Off / PD standard

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 Aluminium frame

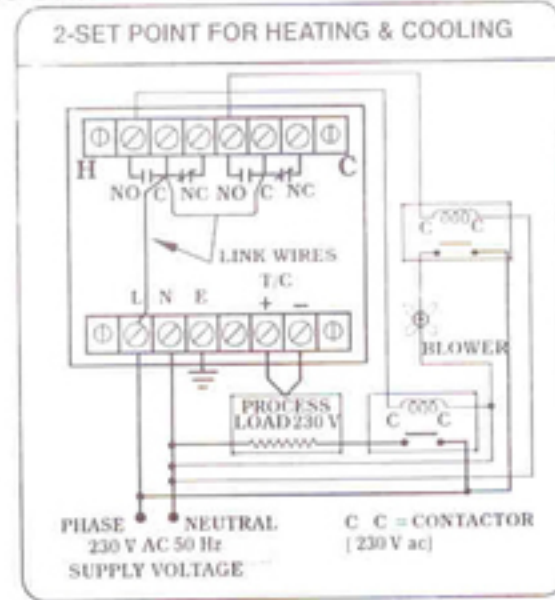
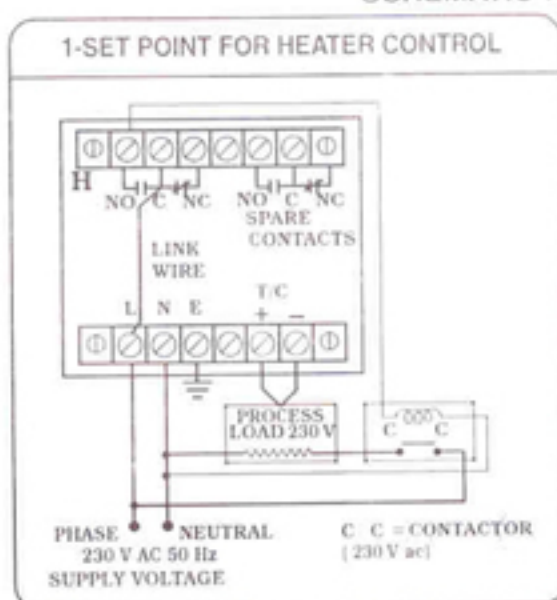
Mounting : By two M.S. side clamps.

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, Driers & Baths ● Metal Treating, Annealing, Hardening, Electroplating.
- Pharmaceutical, Food Processing and Packaging ● Cold Storage, Refrigeration and Air-conditioning

SCHEMATIC WIRING DIAGRAMS



SERVOTRONICS

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