

The name of reliability

Autonics

Sensors, Controllers & more

TC3YT/ TC3YF Series Digital Temperature Switch

NEW

Samples Available!



Digital Control at Analog Prices !

■ Features

TC3YT Series

- ▶ Cost effective and simple operation
- ▶ Selection ON/OFF or Proportional Control
- ▶ Input sensor : Thermocouple(J,K), RTD(Pt100Ω)
- ▶ SPDT 3A or 16A relay Output
- ▶ Size : W72 × H36 × D77mm
- ▶ UL

TC3YF Series

- ▶ Auto/Manual defrost function
- ▶ Input sensor : NTC(Thermister), RTD(Pt100Ω)
- ▶ Output specification : Compressor, Defrost, Evaporation-fan
- ▶ Display Range
NCT sensor : -40.0~99.9°C (-40~212°F)
RTD sensor : -99.9~99.9°C (-148~212°F)
- ▶ Size : W72 × H36 × D77mm
- ▶ UL

■ Applications

- ▶ Food warming equipment
- ▶ Packaging machines
- ▶ Wine chillers
- ▶ Hot stamping
- ▶ Heat tracing
- ▶ Glue pots
- ▶ Heat sealing

Visit www.autonics.com to see more or Call Toll Free **866-862-2602**



Counter / Timer



Timer



Temp. controller



Multi panel meter



Proximity sensor



Photo sensor



Pressure sensor



Rotary encoder



5-Phase stepping Motor

Autonics

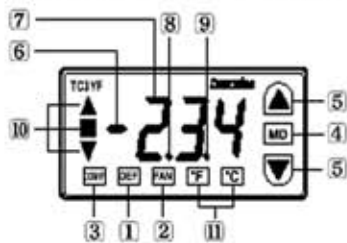
Fax: 847-680-8155

E-mail: sales@autonicsusa.net

Economical Digital Temperature Control

| Control | Temperature Control | | Defrosting and Cooling Control | | |
|-------------------------|---|-----------------------|---|--|--|
| Series | TC3YT Series | | TC3YF Series | | |
| Model | TC3YT-B4R3 | TC3YT-B4R16 | TC3YF-14R | TC3YF-24R | TC3YF-34R |
| Dimensions | W72×H36×L77mm | | | | |
| Power | 100-240VAC 50/60Hz Approx.4VA | | | | |
| Allowable voltage range | 90 to 110% of rated voltage | | | | |
| Display method | 3digit 7 segment LED (RED) | | | | |
| Display accuracy | ±1 digit with a bigger one of ±0.5% of PV or ±1°C | | | | |
| Input specification | TC: K(CA), J(IC), RTD: Pt100Ω (DIN) | | Installed NTC: Thermistor, RTD: Pt100Ω(option) | | |
| Display range | — | | NTC: -40~99.9°C(-40~212°F), RTD: -99.9~99.9°C(-148~212°F) | | |
| Control output | SPDT Relay @250VAC 3A | SPDT Relay @250VAC 6A | Compressor SPST Relay @250VAC 5A | Compressor SPST Relay @250VAC 5A Defrost SPST Relay @250VAC 10A | Compressor SPST Relay @250VAC 5A Defrost SPST Relay @250VAC 10A Evaporator SPST @250VAC 5A |
| Control method | ON/OFF and proportional control (common use) | | ON/OFF: adjustment sensitivity (HYS) variable (0.5~5.0°C, 2~50°F) | | |
| Sampling period | 500ms | | | | |
| Dielectric strength | 2000VAC 60Hz for 1 minute (between external terminal and case) | | | | |
| Insulation resistance | Min. 100MΩ (at 500VDC) | | | | |
| Noise strength | ± 2kV R-phase and S-phase (pulse width 1μs) | | | | |
| Memory retention | Approx. 10 years (when using non-volatile semiconductor memory) | | | | |
| Ambient temperature | -10~50°C (14~122°F) at non-freezing status | | | | |
| Ambient humidity | 35-85% RH | | | | |
| Storage temperature | -20~60°C (-4~140°F) at non-freezing status | | | | |
| Protection | IP65 | | | | |
| Approvals | UL | | | | |

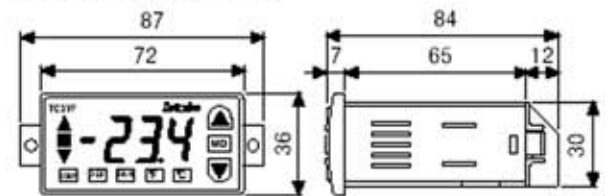
Front panel identification



- ① DEF (Defrost output lamp) : Light on when defrost output is ON
- ② FAN (Evaporation-fan output lamp) : Light on when evaporation-fan is ON
- ③ COMP (Compressor output lamp) : Light on when compressor is ON
- ④ MD (Mode key) : For entering, changing, shifting parameters
- ⑤ ▲ (Setting key: Up) / ▼ (Setting key: Down) : Up/Down the data for setting parameters

- ⑥ - : Displaying minus
 - ⑦ FND (Display measuring value) : Display a current value on operation mode. Display a parameter and a set value when setting parameter
 - ⑧ ● (Display a decimal point) : Display a decimal point for the time unit 'min'
 - ⑨ ● (Display a decimal point) : Display a decimal point for the temperature unit '°C'
 - ⑩ ▲, ■, ▼ (Variation indication part) : SV is standard, PV (Present temperature) - ▲, ▼ (Red) / ■ (Green)
 - ⑪ °C, °F (Temperature unit indication part) : Indicate temperature unit for indicating temperature
- *When delay time is applied, the output lamp of defrost output, evaporation-fan and compressor is ON simultaneously after the lamp flickers every one second.

Dimensions



Panel cut-out

