

Title	Introduction to Delta's Next Generation Multifunction Temperature Controllers
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Related Products	High Speed Intelligent Temperature Controller
Key words	DT3 Temperature Controller

## 【Introduction】

A temperature controller is an electronic measurement device used for temperature control. By obtaining temperature changes from sensors and transmitting measured data to electronic processors, temperature controllers are able to control and maintain a temperature variation within a specific range.

Delta's High Speed Intelligent Temperature Controller DT3 Series is easy to use and with higher specifications and a fast response to deliver smart operation and excellent integration capabilities. This product can be used in a wide range of applications including chemical industry, food and beverage packaging, solar panel manufacturing, and rubber and plastics.

## 【Features of the DT3 Series】



The DT3 Series is designed with many handy functions and an upgraded transmission structure. This product can apply different output modules and can quickly replace modules with new functions, with no need to obtain other types of temperature controllers. Its features are:

- **Large Tri-color LCD Display:**

The DT3 Series is the first temperature controller in Taiwan to adopt a tri-color LCD screen for the display of measured data. With various built-in temperature sensor input modes such as thermocouple, platinum resistance thermometer and linear voltage/current, the DT3 Series also supports various output modes such as relay, pulse voltage, and linear current to quickly attain

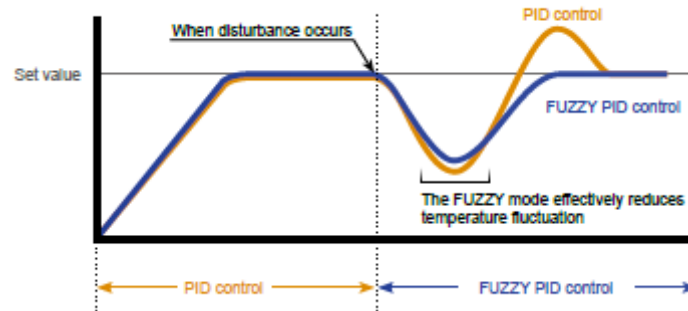
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reliable temperature control.

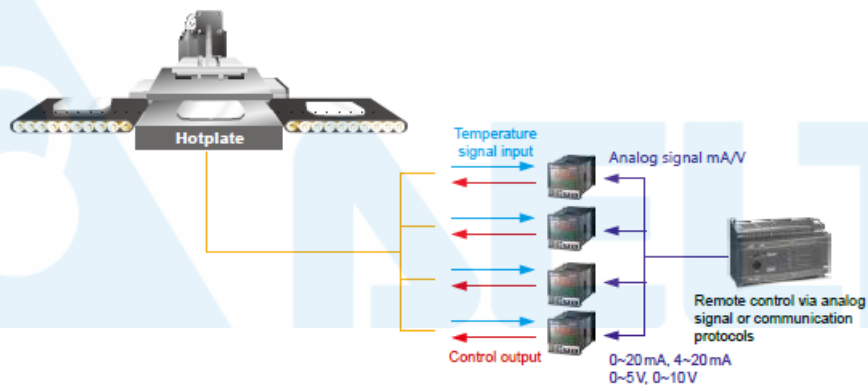
- **Various Control Modes**

The control modes include ON/OFF, PID Process Control, Self Tuning, Fuzzy, Manual and Auto Tuning, which allow controllers to be installed in open or confined space and capable of presenting a smooth temperature curve.



**【What is Remote Control?】**

Remote control allows the DT3 to set a temperature value via the analog output of a host controller.

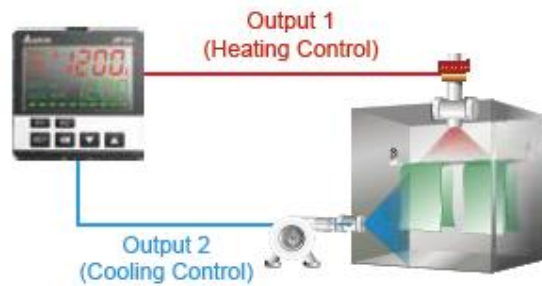


- **Dual Output Control**

The DT3 Series supports two sets of PID parameters, one for heating and one for cooling control. These outputs can be automatically calculated by the Auto Tuning (AT) function to quickly attain preset temperatures.

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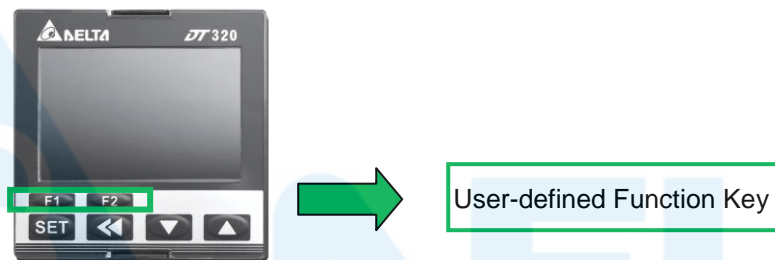
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## ● User-defined Function Keys

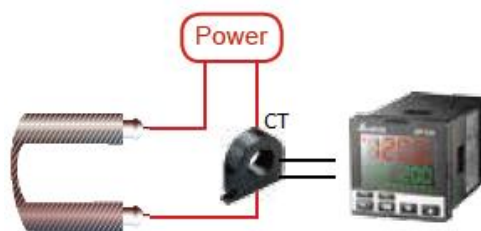
The function keys can be defined with the following functions:

- Control Modes Selection
- Alarm Clearing
- Controller ON/OFF
- Start PID



## ● Heater Disconnection Detection

Delta's DT3 Series can measure and check equipment current via a current transformer (CT) for excessive use of current or disconnection situations. If abnormal use of current or a disconnect situation occurs, the DT3 will automatically switch its alarm function.

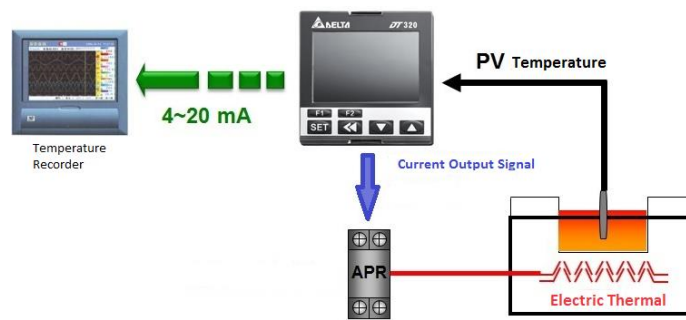


## ● Retransmission Output

The process of retransmission output will transmit the electric thermal temperature detected by sensors with a present value (PV), set value (SV) and manipulated value (MV) into analog current for temperature recorders to store the data.

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