

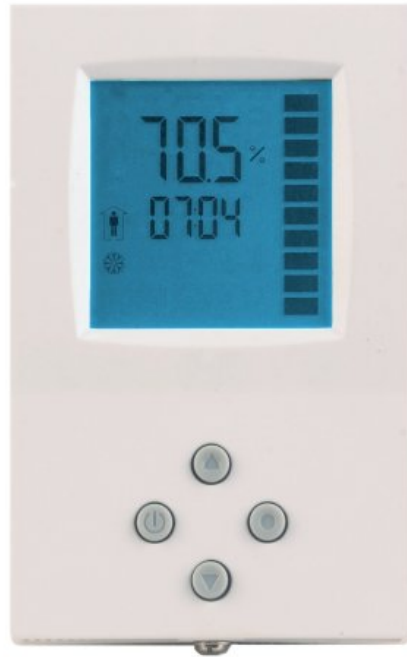
VECTOR

TCY-MT, TCY-FT

Product Introduction

LESS IS MORE!

Competitive PI controller series



TCY-MT-U, TCY-FT-U

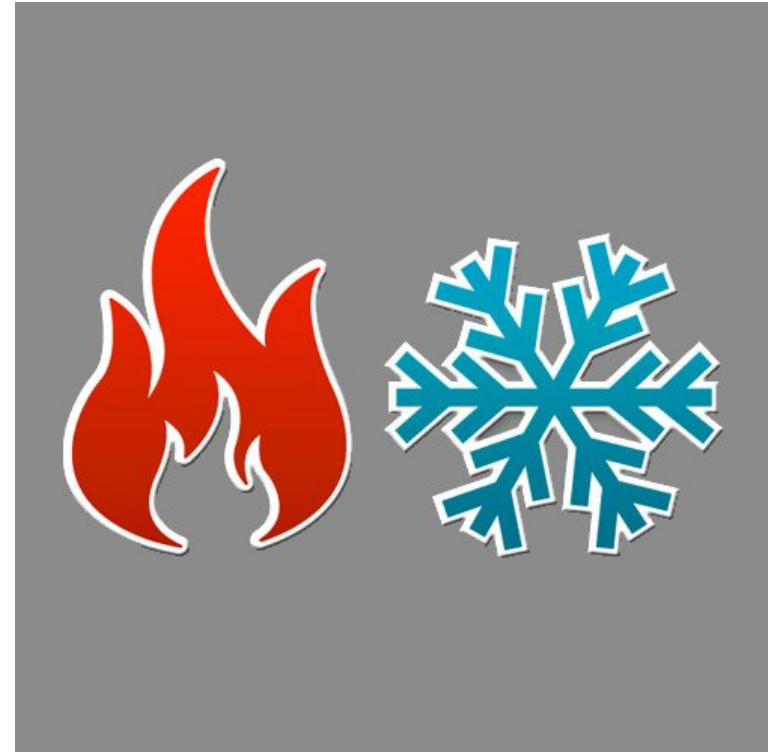


TCY-MT, TCY-FT

- ▲ Features Overview
- ▲ Applications
- ▲ Product Range (2-Pipe or 4-Pipe)
- ▲ Plug & Play (Auto Detection of Inputs)
- ▲ Control Modes
- ▲ Output Options: VAV, Manual Override
- ▲ Change of Heat – Cool Mode for -2 Types
- ▲ Auxiliary Features on External Input
- ▲ User Settings
- ▲ Connection Diagrams

- ▲ Temperature Control for
 - Radiator, Floor heating, Cooling Ceilings
 - Stand alone VAV outlets for pressure dependent control or in conjunction with VAV actuators: pressure independent control
 - Zone control for residential, offices, meeting rooms, hotels or schools.
 - For 0-10V/2-10V or 24VAC 3-point actuators

- ▲ Specific temperature control
Less programming, lower cost
- ▲ Auto detection for external control sensor
- ▲ Key card or occupation sensor input.
- ▲ Specific solution for 2-pipe or 4-pipe applications
- ▲ VAV solution for –MT type
- ▲ Plug & Play for standard applications. No need to setup anything.
- ▲ -MT: 0-10V/2-10V outputs
-FT: 24VAC 3-point outputs
- ▲ Limitation of setpoints



▲ Housing types: Wall mounted.

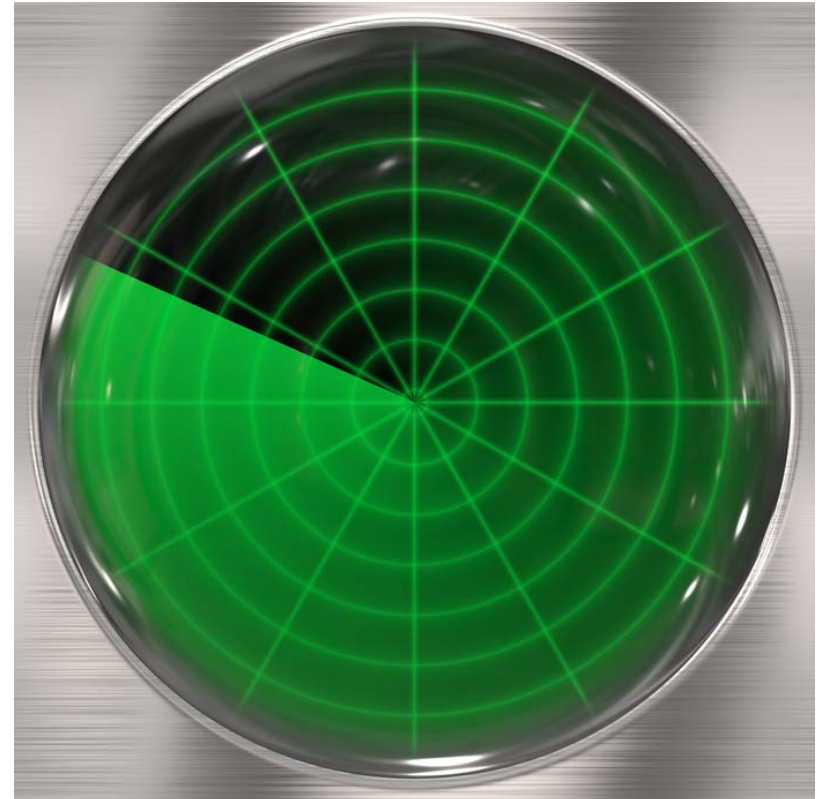
- TCY-MT, TCY-FT : Flush mount ø60mm
- TCY-MT-U, TCY-FT-U : Flush mount 2" x 4"

▲ Configuration:

Name	System	Output	Input
TCY-MT2(-U)	2-pipe	1 0/2-10VDC	2 NTC / OC
TCY-MT4(-U)	4-pipe	2 0/2-10VDC	1 NTC / OC
TCY-FT2(-U)	2-pipe	2 24VAC TRIAC	2 NTC / OC
TCY-FT4(-U)	4-pipe	4 24VAC TRIAC	1 NTC / OC

NTC / OC = NTC temperature probe or open contact input

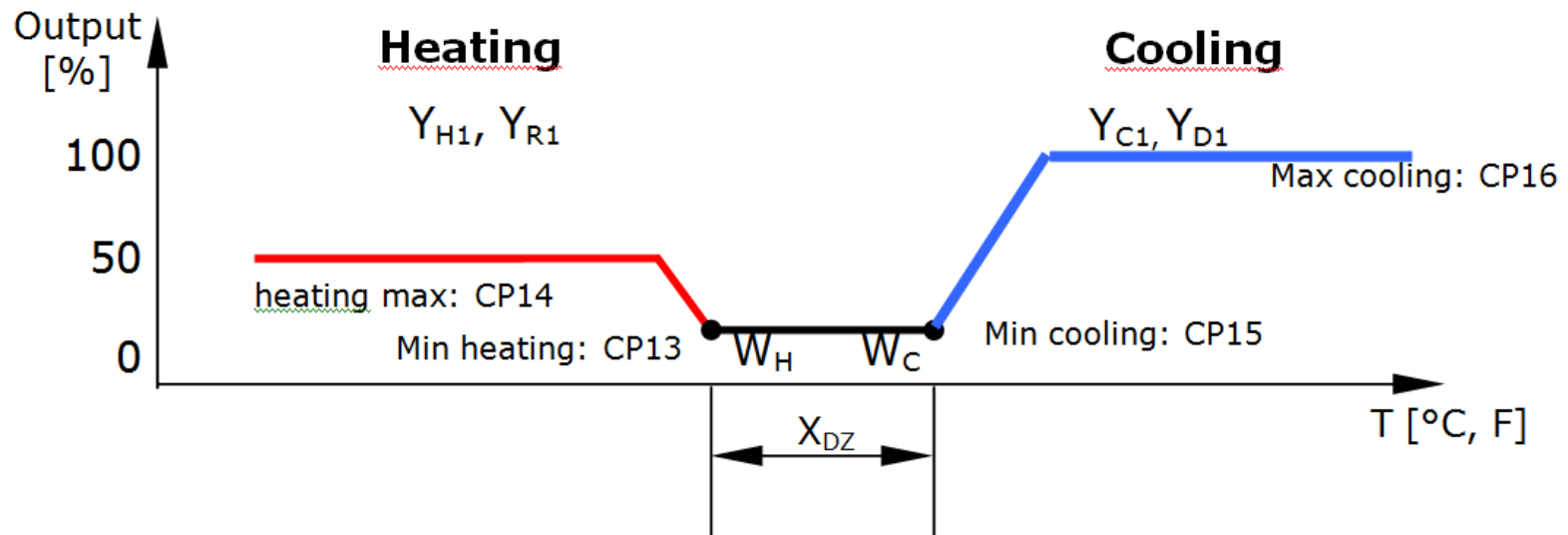
- ▲ Auto detection of inputs
- ▲ The control signal will be taken automatically from the external sensor if a valid input signal is detected
- ▲ No need to program



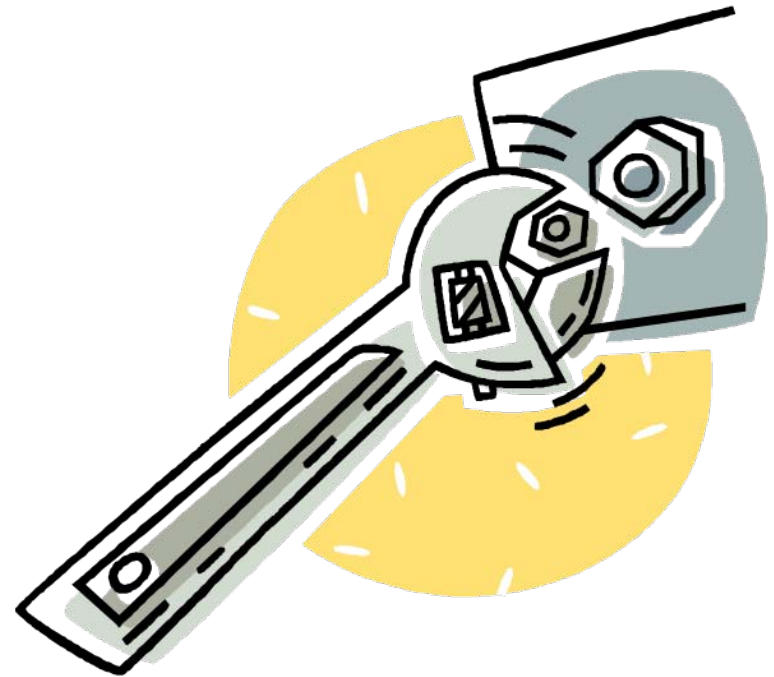
- ▲ The temperature controller operates a heating or cooling device.
Select the control logic with one parameter:

- ▲ CP11 defines the control mode
 - ▲ 0 = Cooling mode: order preset with W01
 - ▲ 1 = Heating only mode: order preset with W02
 - ▲ 2 = 2-pipe mode: (Factory default for -2 products)
 - ▲ 3 = 4-pipe mode: (Factory default for -4 products)
This option is only available on -4 products.

- Define individual min and max limits for heating and cooling on the analog outputs
- This is used to set min and max airflow on linearized VAV actuators.



- ▲ Activate manual positioning for commissioning
- ▲ Set CP12 to ON to set the outputs into manual mode.
- ▲ On -4 products: To switch between heating and cooling outputs, change heat – cool mode of controller



▲ TCY-MT

- 0-10V DC or 2-10VDC
- 10mA load max

▲ TCY-FT

- 24VAC
50...250mA
- Running time:
5...255 Seconds



- ▲ 2-pipe controllers need to change heating and cooling mode. They can be defined with three parameters: These options are available:

Change by:	CP22 Enable	CP23 Heating	CP24 Cooling
Key pad only	OFF		
Outdoor temperature	ON	25°C	15°C
Supply media temperature	ON	15°C	25°C
Open contact: Close = heating	ON	25°C	15°C
Open contact: Close = cooling	ON	15°C	25°C

- ▲ All products have at least one ext input. These are the features:
 - CP18 = 0: Auto detection mode. Use as control input, if the controller detects a valid input signal.
 - CP18 = 1: Occupation sensor: switch comfort – standby mode
 - CP18 = 2: Remote enable: Switch Comfort – OFF
 - CP18 = 3: Key card mode: Fixed setpoints if contact is open. Setpoints are fixed to CP20 in heating mode and CP21 in cooling mode.

The following may be set with user parameters:

- ▲ Access to operation mode change
- ▲ Access to setpoint change
- ▲ Operation state after power failure
- ▲ Enable standby functionality
- ▲ Celsius/Fahrenheit
- ▲ Enable Frost protection

Connection TCY-MT

