



## Operating instructions Time Programing

### 1 Overview

The following instructions describe how to set the clock and how to program the time programs of the TCY-MZ for daily, weekly repeated action/function.

These operating instructions apply to devices that support time schedules that is devices with an integrated real-time clock.



For additional information, refer to the TCY-MZ operating instructions.

### 2 Display and Operation





#### 2.1 User Interface



Figure 1: TCY-MZ




Figure 2: TCY-MZ-U

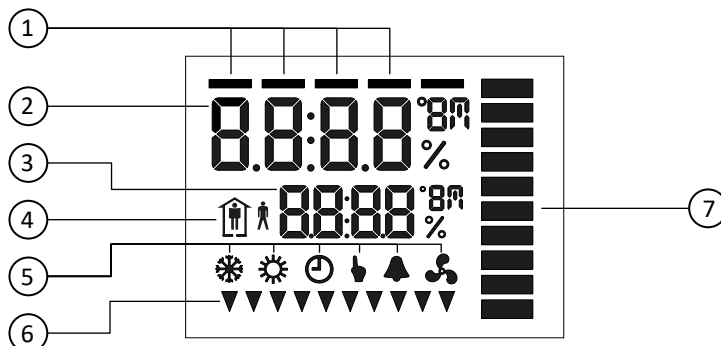
Button Symbol	Function	Description
	Operating mode (Back)	Operating mode selection (On / Off, Occupied / Unoccupied mode) Menu navigation: Back to the previous menu Long press: Off if occupation mode is configured
	Right (Confirm)	Menu navigation: Next menu point Alarms: Confirm the alarm
	Up (+)	Adjust temperature set points and control parameters
	Down (-)	Adjust temperature set points and control parameters

## 2.2 LCD Display

### Overview



This section explains the meaning of the symbols on the LCD Display.

 Some of the symbols shown have no meaning depending on the type and version of the device used.








1	Control loop indication
2	Large digits
3	Small digits
4	Operating Mode
5	Controlling Mode Alarm Fan is active / fan auto mode
6	Triangle indication
7	Indication side bar


## 2.3 Operating Modes

Display	Mode	Description
	Occupied (Comfort)	The device maintains the occupied (comfort) temperature set points defined within each control loop. In occupied mode, the fan can be set to auto or manual fan speed.
	Unoccupied (ECO)	The device maintains the unoccupied (ECO, economy) temperature set points defined within each control loop.
OFF	Protection (Holiday)	The device runs in standby. The system is protected against overheating and frost if enabled. Inputs are monitored for alarms.

## 2.4 Controlling Modes

Display	Mode	Description
	Cooling	Cooling mode activates cooling equipment for temperatures above the set point.
	Heating	Heating mode activates heater for temperatures below set point.
	Manual	Manual override mode
	Clock / Schedules	Set clock, change time schedules or indication of set time schedules
	Fan	The side bars show the fan speed.

## 2.5 Operation Status

Display	Status	Description
	Alarm	Alarm / Error active.

## 3 Time Programming

### 3.1 Clock Operation

#### Overview

This section gives an overview of the clock and the available timed functions of the device.

#### Note on Accuracy



Warning: Devices with a "D" addition (e.g. TCY-MZ2-D) have a real-time clock. This clock is accurate to two seconds a day.

#### Time Programs

Up to 8 time and weekday programs can be programmed (Pr01 to Pr08). Time schedules can change the setpoint of the controller.



Devices with a "D" addition (e.g. TCY-MZ-D) have a real-time clock with a maintenance-free power backup.



A flashing clock time "00:00" indicates that the time has not been set or that the device has been without power for more than 48 hours. The time must be set for the schedules to work.





### 3.2 Clock Setting

#### 3.2.1 Setting time and date of clock

##### Overview

This section describes how to set the time and date of the system clock.

##### Procedure

<p>1. Press the (▶ / ●) button longer than 3 seconds.</p> <p>→ <b>SEL</b> and the actual <b>Time</b> is displayed.</p>	
<p>2. Press the (▶ / ●) button briefly to start changing the time and date:</p> <p><b>Minutes</b> flashes: (Δ) (▽) button for adjustment, (▶ / ●) button to save.</p> <p><b>Hours</b> flashes: (Δ) (▽) button for adjustment, (▶ / ●) button to save.</p> <p><b>Day of the week</b> flashes: (Δ) (▽) button for adjustment, (▶ / ●) button to save.</p> <p>Note: Monday is day 1 of the week.</p>	<div> <div>Set Minutes</div>  </div> <div> <div>Set Hours</div>  </div> <div> <div>Set Day of Week</div>  </div>
<p>Press the (⏻) button (1x) to go back.</p>	

## 3.3 Set Time Schedules

### Overview

Up to 8 time and weekday programs can be programmed (Pr01 to Pr08).

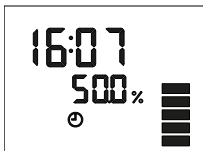

### 3.3.1 Time schedule enable/disable

#### Overview

This section describes how to generally enable/disable timed events (schedules) on the device.




#### Procedure

1. Press the (▶ / ●) button briefly to enable / disable time schedule.  
→ When schedule is enabled, ⌚ is displayed on the home menu (idle display).

Time schedule is on	Time schedule is off
	

#### Alternate Procedure

1. Press the (▶ / ●) button longer than 3 seconds.  
→ **SEL** and the actual **Time** are displayed.
2. Press the (Δ) button briefly to go to the scheduler submenu.  
→ **SEL** and **PRO** is displayed and the clock symbol flashes.
3. Press the (▶ / ●) button: Schedule status indicates whether it is **OFF** or **ON**.
4. Press the (▶ / ●) button: Actual status flashes.
5. Press the (Δ) (▽) button to change the status.
6. Press the (▶ / ●) button to save the status.  
→ When schedule is ON, ⌚ is displayed on the main display.

Press the (⏻) button (1x) to go back to the previous submenu.

### 3.3.2 Set daily/weekly time schedules

#### Overview

This section describes how to set a daily, weekly repeated action/function.





Up to 8 time and weekday programs can be programmed (Pr01 to Pr08).


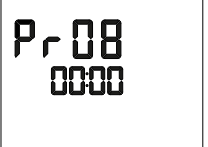







#### Requirements

Time schedule is enabled (see chapter 3.3.1).

#### Procedure

1. Press the (▶ / ●) button longer than 3 seconds.  
→ **SEL** and the actual **Time** is displayed.
2. Press the (Δ) button briefly to go to the scheduler submenu.  
→ **SEL** and **PRO** is displayed and the clock symbol flashes.
3. Press the (▶ / ●) button: Schedule status indicates whether it is **OFF** or **ON**.
4. Press the (▶ / ●) button: Actual status flashes.
5. Press the (Δ) (▽) button to change the status.
6. Press the (▶ / ●) button to save the status.  
→ When schedule is ON, ⌚ is displayed on the main display.

7. Press the (Δ) or (▽) button to select between programs <b>Pr 01...Pr 08</b>		
8. Press the (▶ / ●) button to set the time the program will execute. Press the (Δ) (▽) button to adjust the time from 00:00...23:45 in 15 minutes steps.  → 1 bar indicate setting step 1 is executed.		
9. Press the (▶ / ●) button to select Monday (Day 1). Note: Monday is day 1 of the week. 10. Press the (Δ) button to execute the program on Monday (Day 1). → The first triangle symbol is displayed. 11. Press the (▽) button to <b>not</b> execute the program on Monday (Day 1). → The first triangle symbol disappears. 12. Press the (▶ / ●) button to go to the next day. → <b>Pr01</b> (Program 1) and <b>DAY1</b> (Day 1) is displayed in this example. → 2 bars indicate setting step 2 is executed.	Execute on day 1 	No execute on day 1 
13. Repeat this process to set <b>DAY2</b> to <b>DAY7</b> (Tuesday to Sunday).  → Triangle symbol indicate the days of the week the program will be executed.  ▼▼▼▼▼▼▼ 1 2 3 4 5 6 7 Day of the week, Monday is day 1		
14. Press the (▶ / ●) button to select the setpoint adjustment. 15. Press the (Δ) (▽) button to change the setpoint.  → 3 bars indicate setting step 3 is executed.		
16. Press (▶ / ●) to complete the setting of a timed event.		
17. Now you are back in menu "program selection" (instruction No. 7). Start creating the next weekly schedules for program 2 to 8 as required.		
To go back to the previous submenu, press the (⏻) button (1x).		

### Default preprogrammed weekly time schedules

These switching times are preprogrammed:

Program Id	Day of the Week	Activation Time	Setpoint Value
PRO1	Monday to Sunday (Day 1 to Day 7)	07:00	50%
PRO2	Monday to Sunday (Day 1 to Day 7)	17:00	100%
PRO3	Monday to Sunday (Day 1 to Day 7)	20:00	25%

## **Smart Sensors and Controls Made Easy!**

## **Quality - Innovation – Partnership**

Vector Controls GmbH  
Switzerland

[info@vectorcontrols.com](mailto:info@vectorcontrols.com)  
[www.vectorcontrols.com](http://www.vectorcontrols.com)

