



# Hygrostat Controller

Model: HT-24

MistKing® Hygrostat Controller (HT-24), with humidity probe, is able to precisely monitor the humidity and maintain specified levels based on programmed requirements. Different settings can be set for day and night.

## Hygrostat - Thermometer Timer Connection

1. Connect the **BLUE** lead on the hygrostat controller to the power adapter of your MistKing misting system.
2. Connect the **BLACK** lead to your pump and ZipDrip (if available). DO NOT plug ZipDrip to blue lead.

**REMEMBER** to keep the humidity sensor away from direct mist or it will become waterlogged and read humidity at 99.9% for several days until it dries. If this happens, use a hair dryer to dry the sensor. Be careful not to burn it.



**NOTE:** Hygrostat controller works only with MistKing systems and therefore requires additional Mistking components to work properly.

**Using the hygrostat with non-MistKing equipment voids warranty.**



## LCD Display



- Controller is ON and connected MistKing® system is misting
- Controller is OFF and idle
- System is in day mode
- System is in night mode
- Current time clock
- Low relative humidity alarm

## Terms

- RH** - Probe measured Relative Humidity
- RT** - Probe measured Real Temperature
- DAY SET** - Day Relative Humidity setting
- NIGHT SET** - Night Relative Humidity setting
- DIFFERENCE** - Allowed variation before misting system will engage
- ALARM** - RH value when alarm should sound

**Example:** Current setting is 80% , difference is set to 10% , alarm is set to 30%. Controller will allow the humidity to drop by 10% (to 70%) before the misting system will be turned on. In case humidity drops to 30% the low humidity alarm will sound and an icon will blink on the display. Alarm is a useful tool that can alert you to a malfunction, empty reservoir or a setup correction that needs to be done in order to maintain a correct RH. Alarm will be turned off when RH goes above the Alarm RH. Beeping can be silenced by pressing any button.

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## Setup Instructions:

### 1. Set Current Time (picture A):

Press "C" key once to set the clock: When in setup, press "C" key to switch between hour and minute; press up arrow or down arrow to adjust the values when flashing.

### 2. Configure Humidity settings (picture B):

In normal status, press and hold "SET" for 3 seconds to enter into the setting mode.

a. In the setting mode, "DAY SET" flashes, use up arrow or down arrow to set required humidity for the day.

b. Press "SET" key once to switch to "NIGHT SET". When flashing, use up arrow or down arrow to modify the humidity value for the night.

c. Press "SET" key once to switch to "DIFFERENCE". When "DIFFERENCE" flashes, press up arrow or down arrow key to adjust the value. Difference refers to the allowed humidity drop before the pump will engage.

d. Press "SET" key once to switch to "ALARM". When "ALARM" flashes, use up arrow or down arrow key to set the ALARM value.

e. Press "SET" key once to save and exit the setting mode.



## Tips:

a) **RAPID ADJUST:** While setting individual values, press and hold "up arrow" or "down arrow" for faster advancement of settings

b) **SAVE & EXIT:** When done modifying values press and hold "SET" key for 3 seconds to Save & Exit. Alternatively don't input anything for 15 seconds and controller will exit automatically saving and displaying the main screen.

**Switch between "°C and °F":** In normal status, pressing up and down arrow key together for 5 seconds switches temperature between "°C and °F".

**Quick-ON Function:** In normal status, press and hold up arrow key for 5 seconds to activate the quick-on function. While pressed the controller will activate allowing you to quickly bypass any configured settings and manually activate the misting system. Quick ON, does not affect any settings. When up arrow is released, controller resumes normal operation and misting stops.

**Energy-Saving:** If there is no key activity on the HT-24 for approximately 10 minutes the LCD backlight automatically turns off. Pressing any key will reactivate the back light again.

MENU ITEM	Description	Settings Range
DAY SET	Day humidity setting	1-99%
NIGHT SET	Night humidity setting	1-99%
DIFFERENCE	Variance from day/night humidity setting before pump will engage to mist Duration of OFF cycle during the day	1-20%
ALARM	Low humidity alarm	1-70%
CLOCK	Current Time	00:00 - 23:59

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