





LILYTECH ZL-7816A Humidity and Temperature Controller Installation Guide

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LILYTECH ZL-7816A Humidity and Temperature Controller



Introduction

- Easy to set.
- Professional sensor.
- Sensor cable can be extended to 50 meters.

Specification

• Sensor precision: Humidity ±3%, Temperature ±

• Set and display range: Temperature 0.0 ~ 80.0 °C C, humidity 0 ~ 99.9%RH

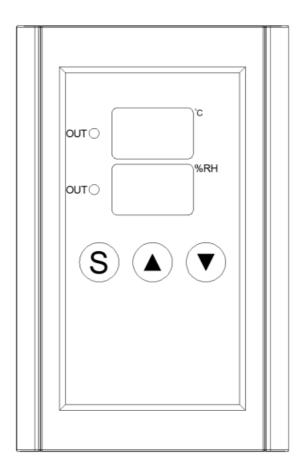
• Working environment: 10 ~ 45 °C C, 5 ~ 95%RH without dew P

power consumption: 2 watts Ppower supply: 12Vac, or 12Vdc

• Outputs: 7A / 250Vac each

• Sensor option: ZL SHr04 or ZL SHr05

Setting



- Keep S depressed for 2 seconds, and enter into setting status:
- The up window displays the parameter code.
- The bottom window displays the value of the code.
- Press S to select the code. See the parameter table below for codes.
- Press ▲ or ▼ to set the value (keeping depressed could fast set).
- Keep S depressed for 2 seconds to exit, and the settings are saved.
 - Note: The status will exit if no key operation for 30 seconds, and the settings will be saved.

Parameter table:

Code	Function	Range	Remark	Factory set
tC	Cooling or heating	Co/HE	Co: cooling, HE: heating	HE
tSP	Setpoint	0.0 ~ 99.9°C	°C	37.5
td	Hysteresis	0.0 ~ 30.0°C		0.1
tCA	Calibration	-5.0 ~ 5.0°C	0.0: no calibration	0.0
tHA	Too high alarm	0.0 ~ 30.0°C	0.0: disable alarm	0.5
tLA	Too low alarm	0.0 ~ 30.0°C	0.0: disable alarm	1.5
НС	Humidify or dehumidify	H/P	H: humidify, P: dehumidify	Н
HSP	Setpoint	0.0 ~ 99.9%RH		52.0
Hd	Hysteresis	0.0 ~ 30.0%RH		0.2
HCA	Calibration	-5.0 ~ 5.0%RH	0.0: no calibration	0.0
НАНА	Too wet alarm	0.0 ~ 30.0%RH	0.0: disable alarm	10.0
HLA	Too dry alarm	0.0 ~ 30.0%RH	0.0: disable alarm	5.0
SHr	Sensor option	4/5	4: ZL-SHR04, 5: ZL-SHR05	5

Control

Temperature control

Heating control

- When parameter tC = HE, heating control.
- When temperature \leq tSP td, temperature output is energized.
- When temperature ≥ tSP, temperature output de-energized.

Cooling control

- When parameter tC = CO, cooling control.
- When temperature ≥ tSP + td, temperature output is energized.
- When temperature ≤ tSP, temperature output de-energized.

Humidity control

Humidify

- When parameter HC = H, humidifying control.
- When humidity \leq HSP Hd, humidity output is energized.
- When humidity ≥ HSP, humidity output de-energized.

Dehumidify

- When parameter HC = p, dehumidifying control.
- When humidity ≥ HSP + Hd, humidity output is energized.
- When humidity \leq HSP, humidity output de-energized.

Alarming

· Over temperature alarm

- When temperature ≥ tSP + tHA, high-temperature alarms, the up window displays "tHi".
- When temperature ≤ tSP tLA, low-temperature alarms, the up window displays "tLo".

· Over wet alarm

- When humidity ≥ HSP + HHA, high humidity alarms, the bottom window displays "HHi".
- When humidity ≤ HSP HLA, low humidity alarms, the bottom window displays "HLo".

Calibration

• The sensed temperature and humidity can be calibrated by set parameter TCA for temperature error,

HCA for humidity error

Display

- When the sensor has a problem or is not connected the display "--.".
- When the temperature output is energized, its output lamp is on. When it is de-energized, the lamp is off.
- When humidity output is energized, its output lamp is on. When it is de-energized, the lamp is off.

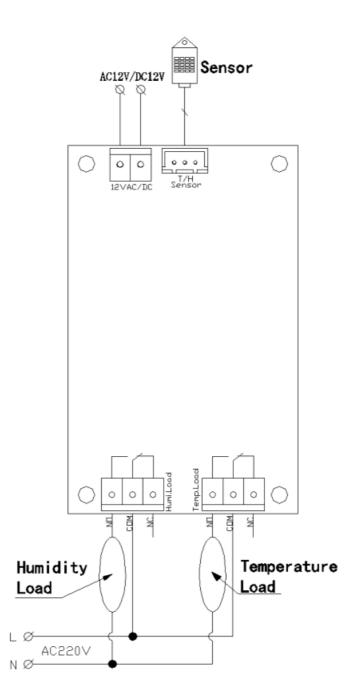
Restore Setting

Keep ▲ and ▼ depressed simultaneously for 2 seconds, and display "UnL". Then press ▼ 3 times,
there will be a long beep, and the settings will be restored to factory default settings.

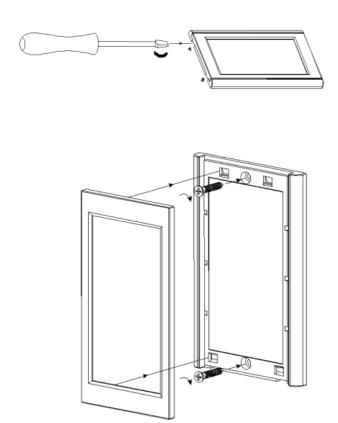
Attention

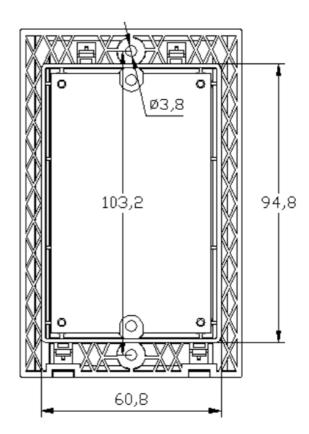
- Install by a certified technician. The outputs are not allowed to drive heavier loads than their specification.
- The PCB voids are to be exposed to super wet conditions.

Wiring



Installation





Suzhou Lily Tech. Co., Ltd.

Documents / Resources



<u>LILYTECH ZL-7816A Humidity and Temperature Controller</u> [pdf] Installation Guide ZL-7816A Humidity and Temperature Controller, ZL-7816A, Humidity and Temperature Controller, Temperature Controller, Controller

References

• User Manual

Manuals+, Privacy Policy

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