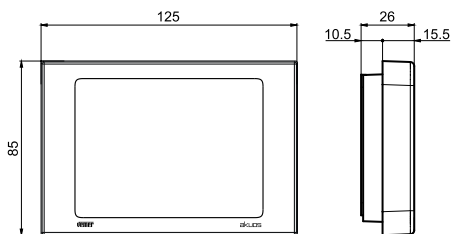
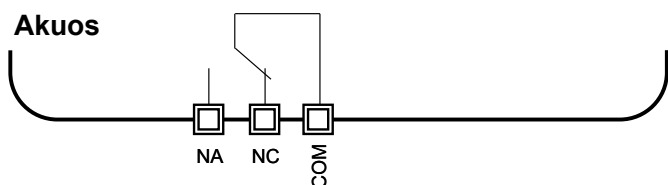
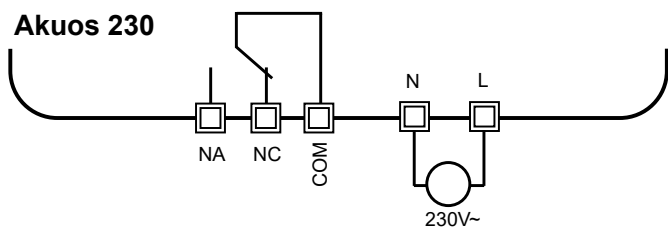




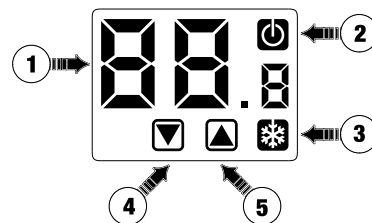
## 2 DIMENSIONS



## 3 WIRING DIAGRAMS



## 4 LEGEND



- ① "Environment humidity" Field
- ② "Off" Field
- ③ "Load activation" Field
- ④ Key "▼" decreases the selected field
- ⑤ Key "▲" increases the selected field

Attention: the keys are active only if the instrument is installed on wall-mounted base.

## REFERENCE STANDARDS

Compliance with Community Directives 2014/35/EU (LVD) and 2014/30/EU (EMCD) is declared with reference to the following harmonized standards:  
• CEI EN 60730-2-13

# 1 User Manual

## ELECTRONIC TOUCH SCREEN HUMIDISTATS

⚠ Read all instructions carefully

Serie di wall mounting touch screen humidistats for humidity control which perform actions of type 1B and are intended for operating in environments Pollution Degree 2 and Overvoltage Category III (EN60730-1).

Code	Model	Description	Power supply
VE476800	Akuos 230 Bianco	Wall-mounting Touch screen electronic humidistats	230 Vac
VE477600	Akuos 230 Nero	Wall-mounting Touch screen electronic humidistats	230 Vac
VE791200	Akuos Bianco	Wall-mounting Touch screen electronic humidistats	Batteries
VE791300	Akuos Nero	Wall-mounting Touch screen electronic humidistats	Batteries

### SAFETY WARNINGS

During product installation and operation it is necessary to observe the following instructions:

- 1) The instrument must be installed by a qualified person, in strict compliance with the connection diagrams.
- 2) Do not power or connect the instrument if any part of it is damaged.
- 3) After installation, inaccessibility to the connection terminals without appropriate tools must be guaranteed.
- 4) The instrument must be installed and activated in compliance with current electric systems standards.
- 5) Before accessing the connection terminals, verify that the leads are not live.
- 6) In the electrical system of the building where the instrument must be installed, a switch and a protection device from the overcurrents must be present.

### TECHNICAL SPECIFICATIONS

- Power supply Akuos 230:
  - 230Vac (-15% - +10%) 50/60Hz
  - Max absorption: 6VA/230Vac
- Power supply Akuos Batteria:
  - 2 alkaline battery 1.5V (AAA type)
  - Battery life: 1 year
  - Battery charge level indication
- Wall mounting or to coverage three-module in built box
- Terminals Akuos 230:
  - 3 terminals for 1.5 mm<sup>2</sup> cable section for bistable output relay 5A/250Vac
  - 2 terminals for 1.5 mm<sup>2</sup> cable section for power supply
- Terminals Akuos Batteria:
  - 3 terminals for 1.5 mm<sup>2</sup> cable section for bistable output relay 5A/250Vac
- Regulation type:
  - On/Off with fixed differential ±2.5% RH
  - Possibility of compensation +/- 10% RH through settable parameter
- Display of measured humidity: 10% - 90% RH
- Accuracy Measure humidity: +/- 5% RH
- Resolution Measure humidity: 1% RH
- Setable setpoint range: 30% - 90% RH
- Password protected lock keypad
- Operating temperature: 0°C - 50°C
- Storage temperature: -10°C - +65°C
- Operating humidity: 20 - 90% not condensing
- Degree of protection: IP40
- Isulation: reinforced among accessible parts (frontal) and all other terminals

Information to users pursuant to art. 14 of the directive 2012/19 / EU of the european parliament and of the council of 4 July 2012 on waste electrical and electronic equipment (WEEE)



If the crossed-out bin symbol appears on the equipment or packaging, this means the product must not be included with other general waste at the end of its working life.

The user must take the worn product to a sorted waste center, or return it to the retailer when purchasing a new one.

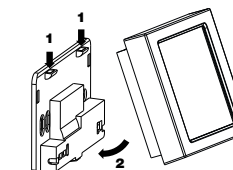
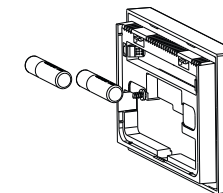
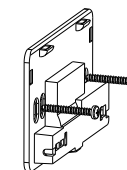
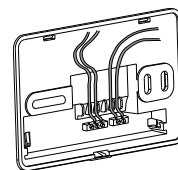
Products for disposal can be consigned free of charge (without any new purchase obligation) to retailers with a sales area of at least 400 m<sup>2</sup>, if they measure less than 25 cm.

An efficient sorted waste collection for the environmentally friendly disposal of the used device, or its subsequent recycling, helps avoid the potential negative effects on the environment and people's health, and encourages the re-use and/or recycling of the construction materials.

## 5 INSTALLATION

- Akuos series humidistats are designed for wall mounting installation. Alternatively, they can be installed to cover the three-module in built box.
- Install the humidistats at a height of about 1.5 m above the floor, away from direct sunlight, away from doors, windows, heat sources, locations with excess or total lack of ventilation.

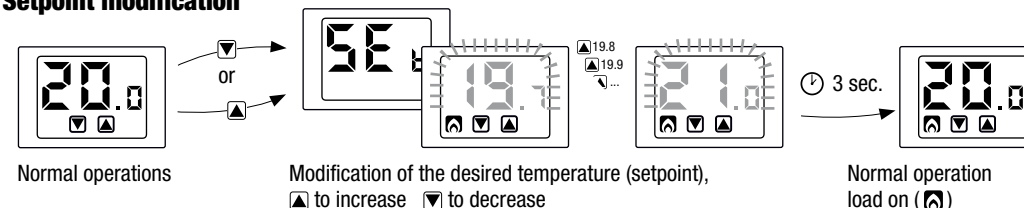
- ① Connect the wires to the terminal block on back of the base, as shown in the "wiring diagrams".
- ② Fix the base on the wall using the screws supplied.
- ③ For battery power supply model only: insert the batteries into the battery compartment on the back of the humidistat, respecting the indicated polarity.
- ④ Attach the humidistat to the base, at first mating teeth on the higher side.



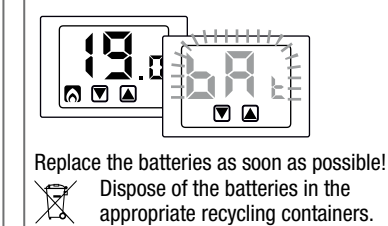
## 6 OPERATION

During the standard operation humidistat displays the detected humidity value and the relay status is identified by the symbol switching on.

### Setpoint modification



### Depleted batteries signal



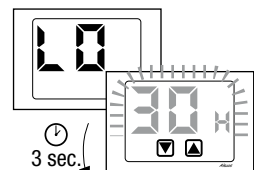
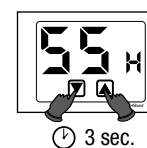
### Advanced programming

#### Possible operations:

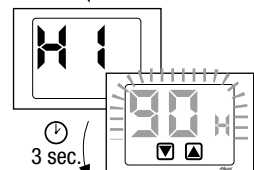
- Limit the upper and lower settable range of the set point values
- Set a password to lock the keyboard (useful to prevent changes by unauthorized persons)

#### Access to programming:

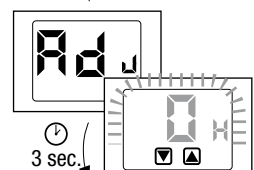
- Press and hold the and keys simultaneously until *Pr* appears
- Display of the various menu items in automatic succession after 3 seconds without any key pressure
- Use the and keys to modify the displayed parameter values
- When programming is finished, the message *End* is displayed, the humidistat returns to normal operation, saving the changes made



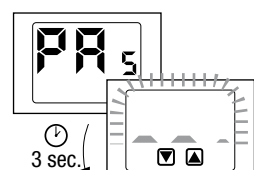
**Minimum settable setpoint - LO**  
It's the minimum value settable as setpoint.  
Settable values: 30% RH ÷ H



**Maximum settable setpoint - HI**  
It's the maximum value settable as setpoint.  
Settable values: L ÷ 90% RH

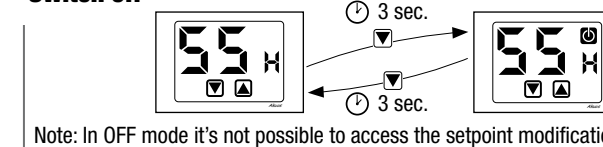


**Correction of humidity measurement % RH - Adj**  
Possibility to enter a humidity compensation value.  
Available range from -10% RH to + 10% RH.  
Resolution 1% RH



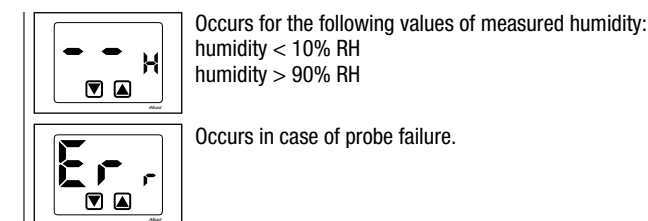
**Password for keypad lock - PAS**  
Set a value between 001 and 999 to activate the keypad lock. Set "---" to disable the lock. If the keypad lock is active, pressing one key during normal operation *Loc* appears and the password is required. If it's properly inserted the keyboard is unlocked and stays until 30 seconds after the last press of a key.

### Switch off



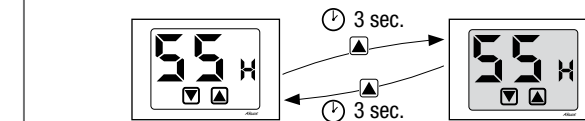
Note: In OFF mode it's not possible to access the setpoint modification.

### Error messages

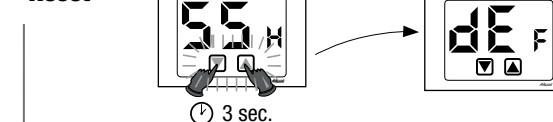


### Backlighting management

During normal operation the display is on and backlit with blue light (only 230V model). If not desired the backlighting function can be disabled (for example in bedrooms). Then the humidistat continues its standard operation and the backlight is enabled entering menu: setpoint modification, advanced programming, pin enter. In battery-powered models, the blue backlighting is activated when the programming menus are entered or if any key is pressed. In normal operating conditions, the backlight is off (behavior cannot be changed).



### Reset



Unhook and re-hook the thermostat from the base (battery models) or remove and restore power (230V models). Press simultaneously the keys during the flashing until the display shows *dEF*

### Default values

Setpoint	50% RH
Minimum settable setpoint - LO	30% RH
Maximum settable setpoint - HI	90% RH
Password	--- (disabled)