



## MANUAL



ENGLISH

# Digital Temperature Unit

Ordercode: D7680

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### Warning

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**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY  
BEFORE YOUR INITIAL START-UP!**



### Unpacking Instructions

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Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Your shipment includes:

1. Temperature controller
2. Temperature sensor
3. Fixing accessories

### Safety Instructions

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Every person involved with the installation, operation and maintenance of this device have to:

- be qualified
- follow the instructions of this manual



**CAUTION! Be careful with your operations.  
With a dangerous voltage you can suffer  
a dangerous electric shock when touching the wires!**



Before your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty. This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

### IMPORTANT!

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the system.


- Allow time to cool down, before cleaning or servicing.
- Always disconnect power from the mains, when system is not used. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.
- Always operate the unit with the AC ground wire connected to the electrical system ground.
- Avoid flames and do not put close to flammable liquids or gases.
- Before changing the ground, always turn off your amplifier.
- Do not connect this device to a dimmer pack.
- Do not open the device and do not modify the device.

- Do not open this device. Risk: hazardous radiation exposure.
- Do not switch the system on and off in short intervals, as this would reduce the system's life.
- Don't put your equipment next to TV, radio, etc., because of interference or distortion.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the system has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your system. Leave the system switched off until it has reached room temperature.
- If you connect other parts of the system, be careful of ground loops.
- If your Dap Audio device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Dap Audio dealer for service.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power-cord is never crimped or damaged. Check the device and the power-cord from time to time.
- Make sure you don't use the wrong kind of cables or defective cables.
- Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Only use device indoor, avoid contact with water or other liquids.
- Please read this manual carefully and keep it for future reference.
- Please turn off the power switch, when changing the power cord or signal cable.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- The best way to avoid ground loops is connecting the electrical system ground to one central point ("star" system).
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- WARRANTY: Till one year after date of purchase.

## Connection with the mains

Connect the device to the mains with the power-plug.

Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	FASE
N	BLUE	BLACK	SILVER	NUL
	YELLOW/GREEN	GREEN	GREEN	EARTH

Make sure that the device is always connected properly to the earth!

**Improper installation can cause serious damage to people and property!**



### Return Procedure



Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail [offersales@highlite.nl](mailto:offersales@highlite.nl) and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

**Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:**

- 1) Your name
- 2) Your address
- 3) Your phone number
- 4) A brief description of the symptoms

### Claims

The client has the obligation to check the delivered goods immediately upon delivery for any shortcomings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.

It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.

Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless otherwise agreed in writing.

Complaints against us must be made known in writing or by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.

Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement of which the obligation is resulting.

## Description

The temperature control unit is used for controlling temperature of inner cabinets. Main features are high reliability and easy operation. Meanwhile, it has warning functions such as alarm for reaching max temperature limit, outputting, sensor fault alarm, etc.

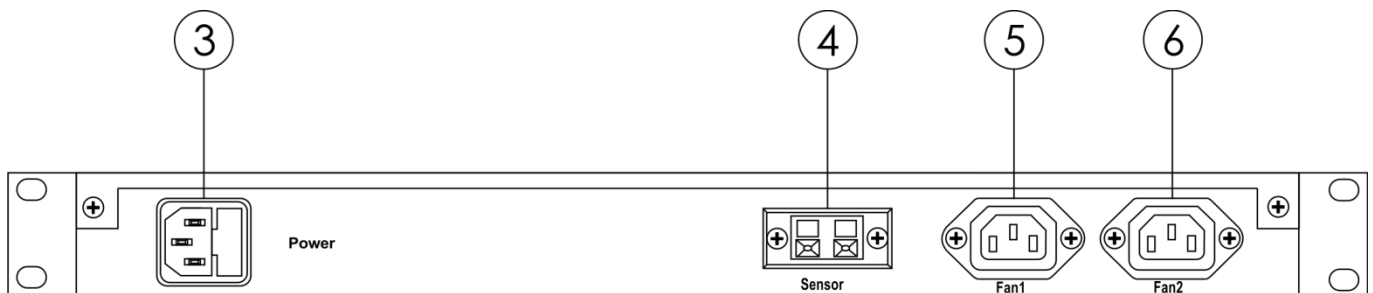
## Overview



## Set Up and Operation



1. temperature controller
2. switch



3. power input
4. sensor tie- in (connect)
5. power output (1)
6. power output (2)
7. Fan

### Connection / wiring steps

1. Connect the temperature sensor to the sensor of the temperature controlling unit.
2. Connect the outside power to the power plug of the temperature controlling unit with special cable.

### Operation

Complete all the connection steps above and confirm the connection is ok, then turn on the switch on the temperature controller and adjust the control parameter to appropriate temperature.

### Operation of the temperature controller

1. Look over and set parameter
  - a) Look over parameter. Under the state of non-setting, pressing key ▲ show setting value of temperature. Pressing key ▼ display the different between the present temperature and temperature located, 2 seconds later, the screen will show the present temperature.
  - b) set parameter
    - method of entering into the state of customer setting: under non-setting state, press "SET" key longer than 5 seconds to enter customer state of setting up, setting indicator to be on and to show the temperature at present.
    - method of temperature setting: under the state of customer setting, press ▲ upwards or ▼ downwards to adjust the temperature. Press one time to adjust 1 degree. It will be changed into rapid adjusting after pressing on it over 2 seconds.
    - The method of exit from the state of customer setting: Press SET key over 5 seconds or no any operation within 30 seconds under state of customer setting, system will store current setting value and return to normal working condition.

- Method of entering administrator's menu : under state of non-setting, pressing "SET" and ▲ over 5 seconds at the same time to enter administrator's menu . Then setting light will be on to show the item: F1 to setting.
  - The method of altering setting items and entering into state of parameter setting: Under setting state, press ▲ upward or ▼ downward to adjust setting item from F0 to F1. If setting item is F0, it would be invalid to press ▼. To press ▲ is invalid when setting item is F1. Pressing ▲ or ▼ adjust into state of altering parameter of this setting item. Meanwhile, digital tube displays setting practical value this moment.
  - The method of altering parameter and return to state of setting value: Under state of parameter value, pressing ▲ or ▼ adjust parameter value pressing ▼ is invalid when parameter value is minimum. When parameter reach max value, pressing ▲ is invalid .
  - The method of memory parameter setting and return to state of setting items under whatever condition, press "SET" key over 5 seconds or no operation within 30 seconds under state of customer setting, system will store current setting value and return to normal working condition
2. Close and disconnection output relay (turn on and off fan)
- If practical temperature is higher than setting temperature, generator of fan would be closed. When practical temperature < (setting temperature minus return difference of temperature) generator of fan is disconnection.
  - When practical temperature is higher than max temperature, alarm relay is closed, monitor displays E2 and buzzer alarm, when practical temperature is lower than max limited temperature, alarm relay disconnected. .
3. The warning function explaining
- Alarm for sensor fault : when sensor has errors (short circuit or disconnection), LED shows E1 with flash, buzzer does alarm.
  - Alarm for minimum value: when measuring value is lower than 0°C, LED shows LL with flash. Buzzer does alarm.
  - Alarm for max limit of temperature: when practical value is higher than max limit of temperature , LED shows E1 with flash. Buzzer does alarm and alarm relay closed .
  - Eliminated Alarm: Press any key to eliminate alarm sound under alarm condition. But, display and alarm state of relay will not be changed.

### safety regulation

- Danger - please cut off power when wiring, no working with electricity.  
- no overloading of relay.
- Warning - The voltage of up power should be conformed with it marked on the machine  
- Only persons with professional qualification are able to install and adjust the machine.
- Attention - No use in the humidity environment. No use neither in the strong disturbance for electromagnetism environment nor strong erosion environment.  
- please keep distance between sensor cable and power cable for avoiding impossible disturbance.  
- common user please don't visit administrator 's menu randomly.



**Appendix**

Form 1 form of indicative light state

Cool light	On	Fan works
	Off	Fan stop working
Set light	On	Under state of setting
	Off	Under state of normal working

Form 2 administrator menu

Items of Menu setting	Scope of parameter setting	Original parameter setting	Display contents of menu
Return difference	0-50°C	1°C	F0
Setting of max limit temperature	0-50°C	45°C	F1

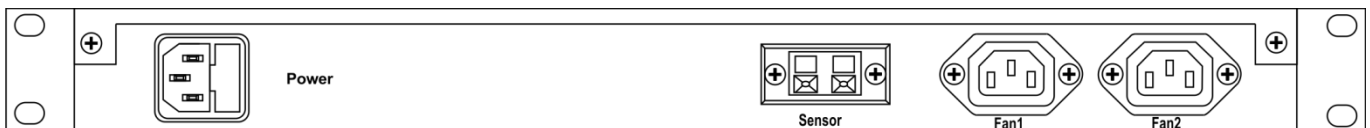
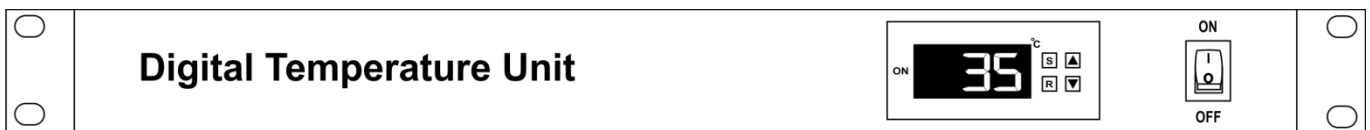
**Maintenance**

The DAP Audio 1U Digital Temperature Unit requires almost no maintenance. However, you should keep the unit clean. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Do not use alcohol or solvents.

Keep connections clean. Disconnect electric power, and then wipe the connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

**Product Specifications**

- Running environment: -5°C ~ 50°C
- Relative humidity: 20%--85 % (dew don 't be formed )
- Main technical parameter: the voltage of the power: 220VAC ±10% (110VAC is optional)
- Measuring Scale: 0°C ~ 50°C
- Capacity of connective point of relay: 7A/250VAC
- Span of control : 0°C ~ 50°C
- Precision of controlling and measuring: ± 1°C





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