

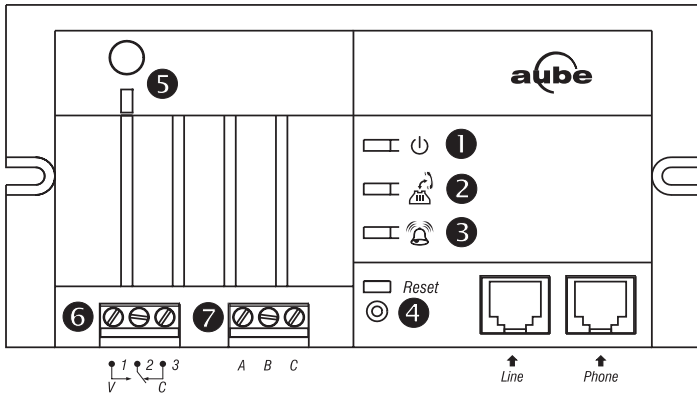
1. Introduction

The CT240 telephone controller is designed to remotely control your home's thermostat. It is possible to command a temperature decrease (Unoccupied) during a prolonged absence or a temperature increase (Comfort) before you return home.

Depending on your thermostat's operating characteristics, it either connects to the Aube output (for most Aube models) or to the auxiliary output.

When the auxiliary output is not used to control a thermostat, it can be used to simultaneously control a load such as a water heater, lighting, etc.

Figure 1: Product Overview



- 1 Power Indicator.** Indicates the CT240 is powered on. To turn it off, unplug the power transformer.
- 2 Communication Indicator.** Indicates the CT240 has answered and is awaiting a command.
- 3 Ring Indicator.** This indicator flashes when the phone rings.
- 4 Reset.** This button can be used to reset the CT240 to its default values. See section 3.3.
- 5 Manual Output Activation Button.** Can be used to manually switch the relay status.
- 6 Auxiliary Output.** See section 2.
- 7 12 VDC Output.** See section 2.

2. Installation

Any device connected to a telephone line must conform to the country's standards. The CT240 telephone controller meets:

- FCC68 standards for installation on the North American network.
- FDTBR21 standards for installation on the European network.

2.1 Included Parts

- One CT240 telephone controller
- One power transformer 120 V (North America) or 250 V (Europe)
- One 5 m (16 foot) telephone cable

NOTE: If you are using an answering machine, position the answering machine switch to ON before installing the CT240. Make sure that your answering machine answers after a minimum of 4 rings.

Figure 2: Answering Machine Switch

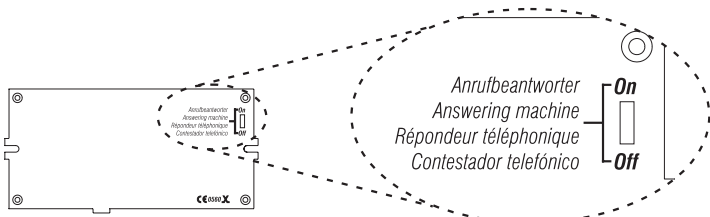
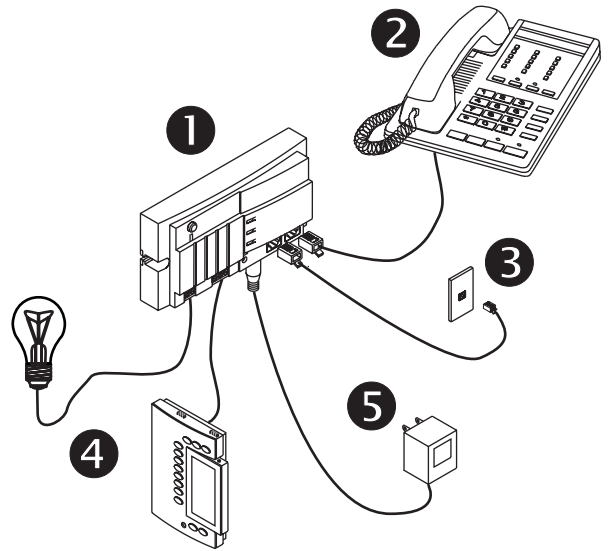


Figure 3: Typical Installation



- 1** Mount the CT240 near a telephone outlet.

NOTE: If you plan to connect a load having more than 30 volts on the auxiliary output, the CT240 must be installed inside a certified electrical box.

- 2** OPTIONAL. Connect your phone (or answering machine) to the PHONE connector of the CT240.
- 3** Connect one end of the telephone cable to the LINE connector of the CT240 and the other end to the telephone outlet in your home.
- 4** Connect the thermostat and load. Both outputs work simultaneously.

NOTE: Refer to your thermostat's electrical specifications (telephone interface) for the connection requirements.

- If your thermostat requires a 12 VDC signal to switch to Vacation setpoint, use the ABC output (FIGURE 4):
 - A and C terminals:
 - 0 VDC in Comfort mode
 - 12 VDC in Vacation mode

NOTE: 50 mA max. for parallel connection of Aube thermostats.

- If your thermostat requires a dry contact to switch to the Vacation setpoint, use the 123 output (FIGURE 5):
 - Load = terminals 2 and 3 (NC) (open = Vacation)
 - Thermostat = terminals 1 and 2 (NO) (closed = Vacation)

- 5** When all connections have been made, connect the power transformer to the 9 V outlet of the CT240 and the other end to the wall electrical outlet. The power indicator light ϕ is ON when the circuit is powered.

Figure 4: 12 VDC Signal to thermostat

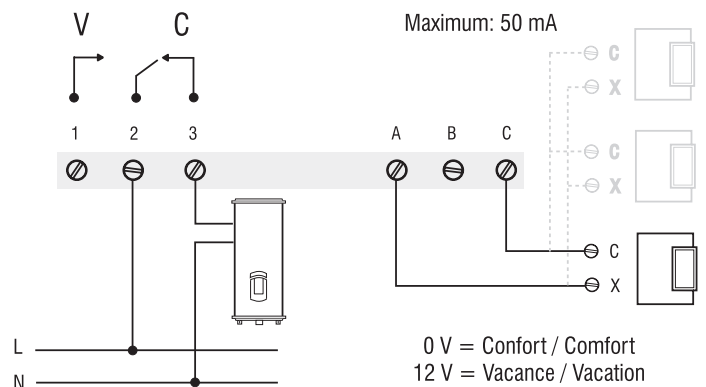
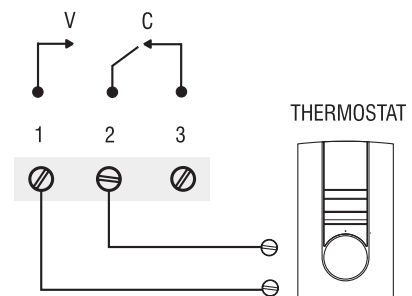


Figure 5: Dry contact to thermostat



3. Operation

NOTE: The CT240 will automatically hang up if no key is pressed during the 30 seconds following the CT240 answering a call.

Default values:

- Access code = 1234
- Number of rings = 4

3.1 With or Without an Answering Machine

1 BEGIN A SESSION (without answering machine)

Dial your phone number

Wait for the number of rings...

CT240 answers



1 BEGIN A SESSION (with an answering machine)

Dial your phone number

Let it ring once and hang up

Wait 10 seconds...

Dial your phone number again within the next 30 seconds

CT240 answers (1st ring)



2 ENTER YOUR ACCESS CODE

Enter your 4-digit access code
(default: 1234)



Accepted



Error

3 OUTPUT STATUS/MODIFY STATUS

Press **1** for output status



Comfort

Press ***** to change status



Vacation

3 MODIFY THE ACCESS CODE

Press **# 8**



Enter your new 4-digit access code



Enter the access code again



Accepted



Error

3 MODIFY THE NUMBER OF RINGS (phone only)

Press **# 9**



Enter the number of rings after
which the CT240 will answer
(between 1 and 9)



x the number of
selected rings

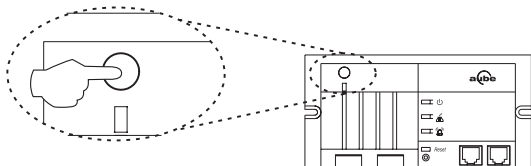
4 END SESSION

Press **# 0** to end the session

3.2 Manual Output Activation Button

The button, located on the upper-left corner of the CT240, can be used to manually switch the relay status. This option is not available while the CT240 is answering a telephone call.

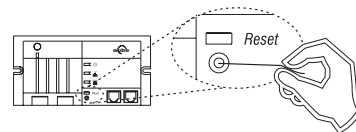
The light is ON when the auxiliary output is in Vacation mode (terminals 1 and 2 closed)



3.3 Reset to default values

Insert a pointed object (e.g. paper clip) in the hole located under the Reset light. The light will flash 3 times to indicate that the CT240 has been reset:

- number of rings: 4
- access code: 1234



- Output status:

ABC: Terminals A and C: Comfort

123: Terminals 1 and 2: opened, Terminals 2 and 3: closed

4. Technical Specifications

Power supply: 9 VAC / 60 Hz (50 Hz Europe)

Output (ABC): 0 VDC = Comfort mode / 12 VDC = Vacation mode

Maximum load for parallel connection of Aube thermostats: 50 mA

Auxiliary output (123): SPDT with following capacity:

- 5 A / 30 VAC inductive / Power Factor: 0.4
- 10 A / 30 VAC resistive (if installed in a certified electrical box)
- 10 A / 240 VAC resistive (if installed in a certified electrical box)
- 1/2 HP / 120 VAC motor (if installed in a certified electrical box)
- 1 HP / 240 VAC motor (if installed in a certified electrical box)

Protection: Class II

Access code (default): 1234

Number of rings (default): 4 rings

Memory protection: In case of power failure, access code and output status are protected.

Phone certification standard:

- FDTBR21: European telephone network
- FCC68: North American telephone network

Approvals:

- c UL us (North America)
- CE (Europe)

Dimensions (H W D): 2.7 x 5.4 x 1.2 in. (69 x 137 x 31 mm)

5. Warranty

AUBE TECHNOLOGIES INC. THREE (3) YEAR LIMITED WARRANTY

This product is guaranteed against workmanship defects for a three-year period following the initial date of purchase. During this period, AUBE Technologies Inc. will repair or replace, at our option and without charge, any defective product which has been used under normal conditions. The warranty does not cover delivery costs and does not apply to products poorly installed or randomly damaged following installation. This warranty cancels and replaces any other manufacturer's express or implied warranty as well as any other company commitment. AUBE Technologies Inc. cannot be held liable for related or random damages following the installation of this product.

The defective product as well as the purchase invoice must be returned to the place of purchase or mailed, prepaid and insured, to the nearest shipping address.



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