CT241 Telephone Controller

Installation Instructions and User Manual

1. Introduction

The CT241 telephone controller is designed to remotely control up to four independent loads.

For example, you could connect a sprinkler system, a water heater, etc. Another example would be to connect an output to the thermostat's phone interface (which requires a dry contact) to switch from Comfort mode to Vacation mode and vice versa.

Loads can be activated or deactivated remotely (by telephone) or manually (on-site).

Figure 1: Product Overview
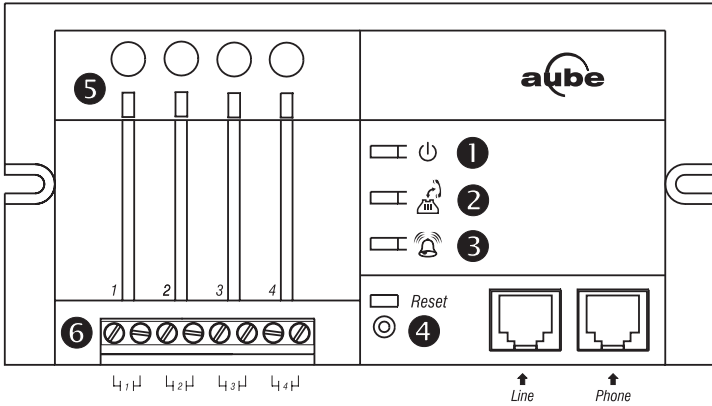
1	**Power Indicator.** Indicates the CT241 is powered on. To turn it off, unplug the power transformer.
2	**Communication Indicator.** Indicates the CT241 has answered and is awaiting a command.
3	**Ring Indicator.** This indicator flashes when the phone rings.
4	**Reset.** This button can be used to reset the CT241 to its default values. See section 3.2.
5	**Manual Output Activation Button.** Can be used to manually activate or deactivate a relay.
6	**Terminal Board.** See section 2.

2. Installation

Any device connected to a telephone line must conform to the country's standards. The CT241 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 CT241 telephone controller)
- One power transformer 120 V (North America) or 250 V (Europe)
- One 5 m (16 foot) telephone cable

2.2 Installation Procedure

NOTE: If you are using an answering machine, position the answering machine switch to ON before installing the CT241. Make sure that your answering machine answers after a minimum of 4 rings.
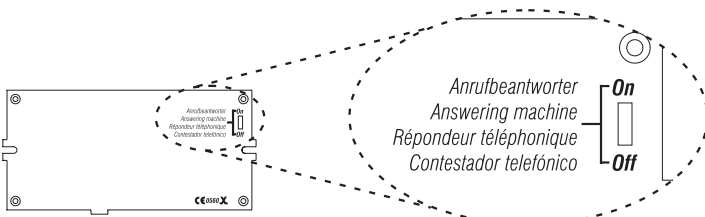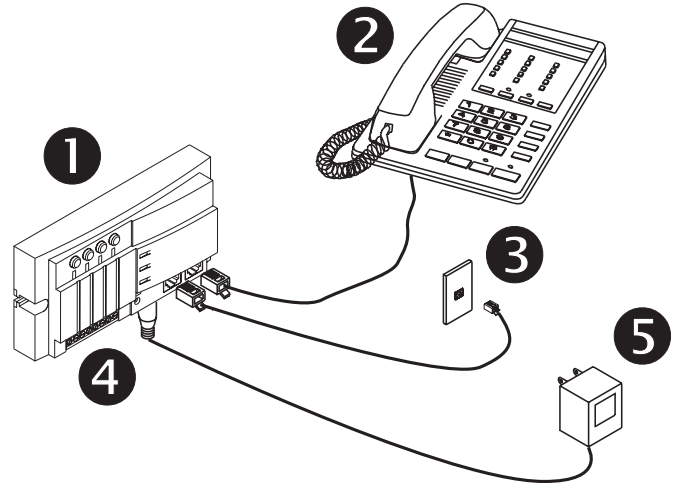
Figure 2: Answering Machine Switch

Figure 3: Typical Installation


❶ Mount the CT241 near a telephone outlet.

NOTE: If you plan to connect a load having more that 30 volts on the auxiliary outputs, the CT241 must be installed inside a certified electrical box.

❷ OPTIONAL. Connect your phone (or answering machine) to the PHONE connector of the CT241.

❸ Connect one end of the telephone cable to the LINE connector of the CT241 and the other end to the telephone outlet in your home.

❹ Connect the loads.

The four outputs of the CT241 allow you, for example, to activate or deactivate the lighting system, the sprinkler system, the water heater, etc.

You can also connect a thermostat's telephone interface (which requires a dry contact) to automatically switch from Comfort mode to Vacation mode and vice versa.

NOTE: The capacity per output is 10 A @ 240 VAC. However, to avoid electrical shocks, the direct connection of a load exceeding 30 VAC is not permitted unless the CT241 is installed inside a certified electrical box.
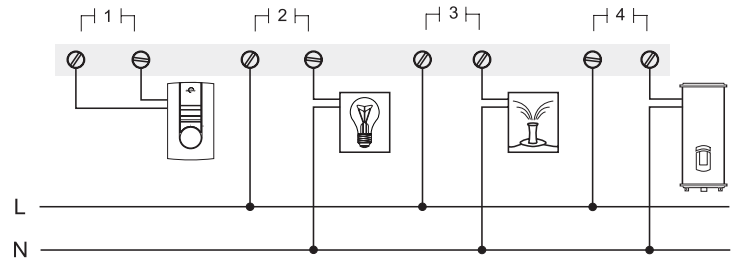
❺ When all connections have been made, connect the power transformer to the 9 V outlet of the CT241 and the other end to the wall electrical outlet.
The power indicator light ⏻ is ON when the circuit is powered.

3. Operation

NOTE: The CT241 will automatically hang up if no key is pressed during the 30 seconds following the CT241 answering a call.

Default values: access code (1234), number of rings (4)

❶ BEGIN A SESSION (without answering machine)

Dial your phone number	
Wait for the number of rings...	
CT241 answers	(((Beep • Beep • Beep)))

❶ 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	
CT241 answers (1st ring)	(((Beep • Beep • Beep)))

❷ ENTER YOUR ACCESS CODE

Enter your 4-digit access code (default: 1234)	(((Beep • Beep)))	Accepted
	(((Beeeep)))	Error

❸ OUTPUT STATUS/MODIFY STATUS

Press the output's corresponding number ①,②,③,④ for status	(((Beeeep)))	Deactivated (open)
Press ⍟ to change its status	(((Beep • Beep)))	Activated (closed)

❸ MODIFY THE ACCESS CODE

Press # 8	(((Beep • Beep)))	
Enter your new 4-digit access code	(((Beep • Beep)))	
Enter the access code again	(((Beep • Beep)))	Accepted
	(((Beeeep)))	Error

❸ MODIFY THE NUMBER OF RINGS (phone only)

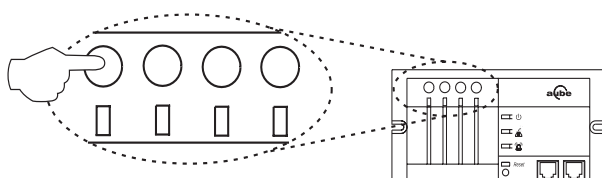|		
Press # 9	(((Beep • Beep)))	
Enter the number of rings after which the CT241 will answer (between 1 and 9)	(((Beeeep))) x the number of selected rings	
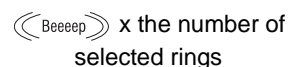
❹ END SESSION

Press # 0 to end the session

3.1 Manual Output Activation Buttons

You can switch a relay status by pressing the corresponding input's button directly on the CT241.
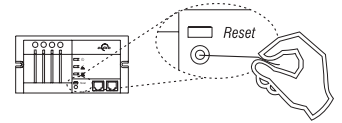

This function is not accessible while the CT241 is answering a telephone call.

3.2 Reset Operation

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 CT241 has been reset:

- number of rings: 4
- access code: 1234
- relays' status: open

4. Technical Specifications

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

Outputs: Four SPST with the 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

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