

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

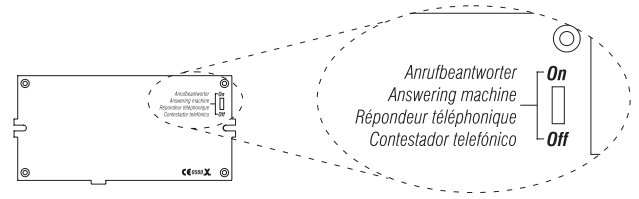
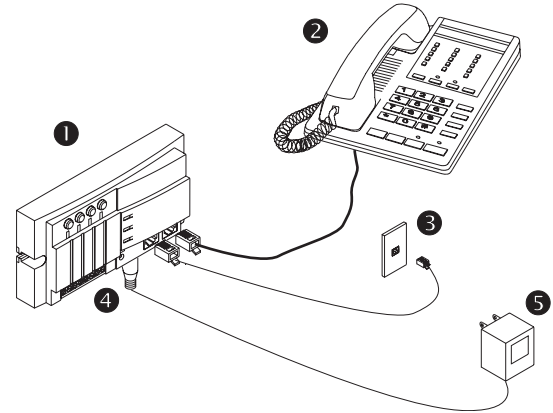


Figure 3: Typical Installation



1 Place the CT241 near a telephone outlet.

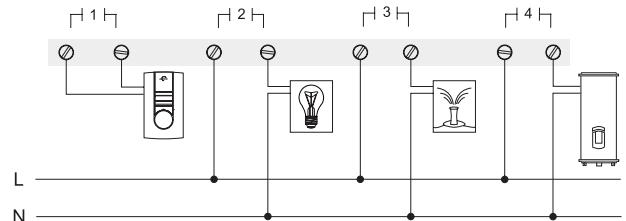
NOTE: If you plan to connect a load having more than 30 volts on the auxiliary outputs, the CT241 must be installed inside a certified electrical box.

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

3 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.

4 Connect the loads.

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.



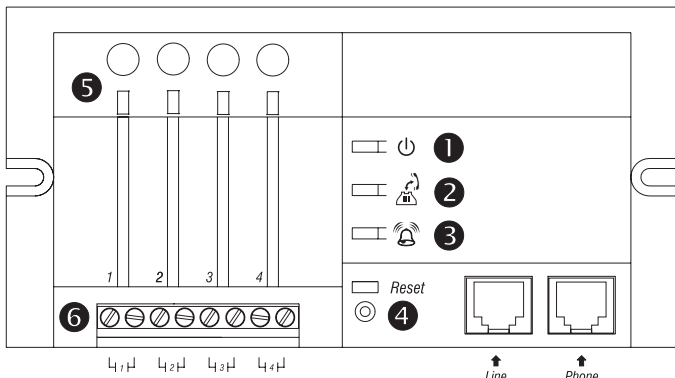
5 When all connections have been made, connect the power transformer to the 9 V outlet of the CT241 and the other end to the wall electrical outlet. The power indicator light is ON when the circuit is powered.

1. Introduction

The CT241 telephone controller has four independent outputs that can be used to remotely control up to four separate loads. Each load can be activated or deactivated remotely (via the telephone line) or locally (via a button on the controller).

For example, you could connect a sprinkler system, a water heater, etc. You can also connect a thermostat equipped with a remote input for a dry contact to automatically switch from the thermostat between Comfort mode and Vacation mode.

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

NOTE: The CT241 telephone controller meets PTC 210/05/002 standards for installation on the New Zealand network:

2.1 Included Parts

- One CT241 telephone controller
- One 240 V adaptor
- One 5 m telephone cable

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)

1 BEGIN A SESSION (without answering machine)

Dial your phone number

Wait for the number of rings

CT241 answers



1 BEGIN A SESSION (with 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)



2 ENTER YOUR ACCESS CODE

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



Accepted



Error

3 OUTPUT STATUS/MODIFY STATUS

Press the output's corresponding
number 1, 2, 3, 4 for status



Deactivated
(open)

Press * to change its status



Activated
(closed)

3 MODIFY THE ACCESS CODE

Press # 8



Enter your new 4-digit access code



Enter the access code again



Accepted



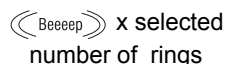
Error

3 MODIFY THE NUMBER OF RINGS (phone only)

Press # 9



Enter the number of rings after
which the CT241 will answer
(between 1 and 9)

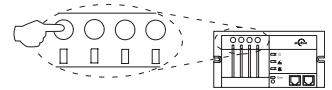


4 END SESSION

Press # 0 to end the session

3.1 Manual Output Activation Buttons

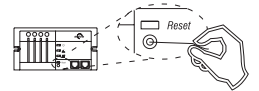
You can switch a relay status by pressing the corresponding input's button directly on the CT241. This function is not accessible while the CT241 is answering a telephone call.



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 / 50 Hz

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)
- ½ 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: PTC 210/05/002 New Zealand telephone network

Approvals: CE

Dimensions (H W D): 69 x 137 x 31 mm

5. Warranty

WARMUP HEATING SYSTEMS NZ LTD THREE (3) YEAR WARRANTY

This product is warranted against defects in material and workmanship under normal conditions of use for a period of three years from the date of purchase. During this period, WARMUP will repair or replace the product, if it is defective in normal operating conditions in terms of materials or workmanship, with a new product of equivalent quality at WARMUP's option.

The warranty does not cover costs of transportation, removal, installation or damage caused by misuse or accident. In no event will WARMUP be liable for consequential loss resulting from the installation of the product. Any defective product should be sent with the original invoice to the original installer, or shipped prepaid, insured and sent to the following address:

WARMUP Heating Systems NZ Ltd
Copsey Business Park,
20 Copsey Place,
Avondale, Auckland.

If you have any questions concerning the installation of the CT241, call our technical support team on:

Phone: 09 820-4001 or 0800 WARMUP (927-687)

Fax: 09 820-7090

Email: info@warmup.co.nz

For more information on our products, visit us at:
www.warmup.co.nz