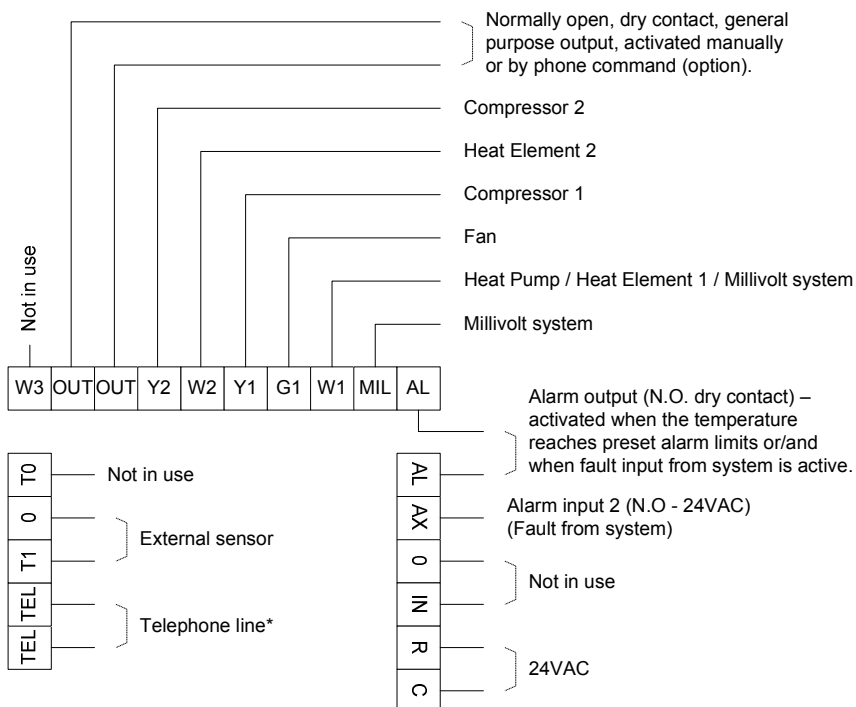
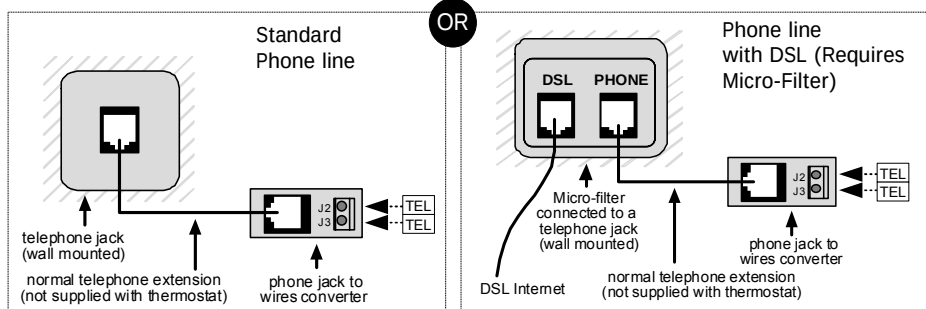




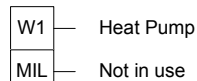
Note: Be advised that the turn on time for the LCD to light up is up to 10 sec. from the time 24VAC is applied.

Phone line connection



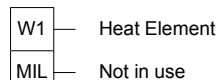
Heat outputs

24VAC Heat Pump:



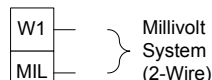
JP1 on base plate - "3" position
JP6 on the front plate - short

24VAC Heat element:



JP1 on base plate - "3" position
JP6 on the front plate - open

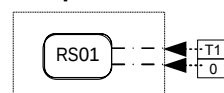
2-Wire Millivolt system: (dry contact)



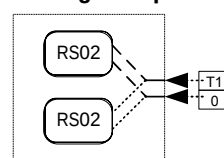
JP1 on base plate - "1" position
JP6 on the front plate – open
Note: Connection to 2-Wire Millivolt system is used only in HC config.!

Temperature sensor

Temp. sensor



Average temp. sensor



Warning: The CEM features advanced indication capabilities, and will notify you of your HVAC system condition. **It is by no mean a replacement for your alarm systems of your house and business facilities.** The company will not be responsible for any loss or damage that may result if the CEM fails to indicate any alarm condition.

TECHNICIAN SETTINGS:

Jumpers on front panel

Jump.	Function		Position
JP1	Internal sensor control		Pos.B (def.
	External sensor control		Pos.A
JP2	Not in use		
JP3	4 Minutes delay for compressor		Open (def.
	No delay		Short
JP4	Clock mode – 24 hours		Open
	Clock mode – 12 hours (AM/PM)		Short (def.
JP5	“OUT,OUT” outputs not active		Open
	“OUT,OUT” outputs active		Short (def.
JP6	HC (Heat/Cool)		Open (def.
	HP (Heat Pump)		Short
JP7	In HP	Heat Pump in Cool	Open
		Heat Pump in Heat	Short
	In HC	Heat mode - Electric	Open (def.
		Heat mode – Oil/Gas	Short

Jumpers on back plate

Jump.	Function	Position
JP1	24VAC to W1 output	"3" position (def.)
	The "W1" and "MIL" outputs are used to connect 2-wire Millivolt system (dry contact) USE ONLY IN HC!	"1" position

The following setting are described in details in the attached operating manual:

- Setting of temperature limits
- Setting of temperature alarm
- Connection of external sensor
- Connection of outdoor sensor
- Connection of extra receiver

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Title: **CEM-24-SUPER**

Date: 09 Dec 2007

No.

Revision

Date

File name: CEM-24-quickstart_rev2.2.vsd

Drawn: P.Rechtman

Checked: O.Volovitch

Approved: E.Roy

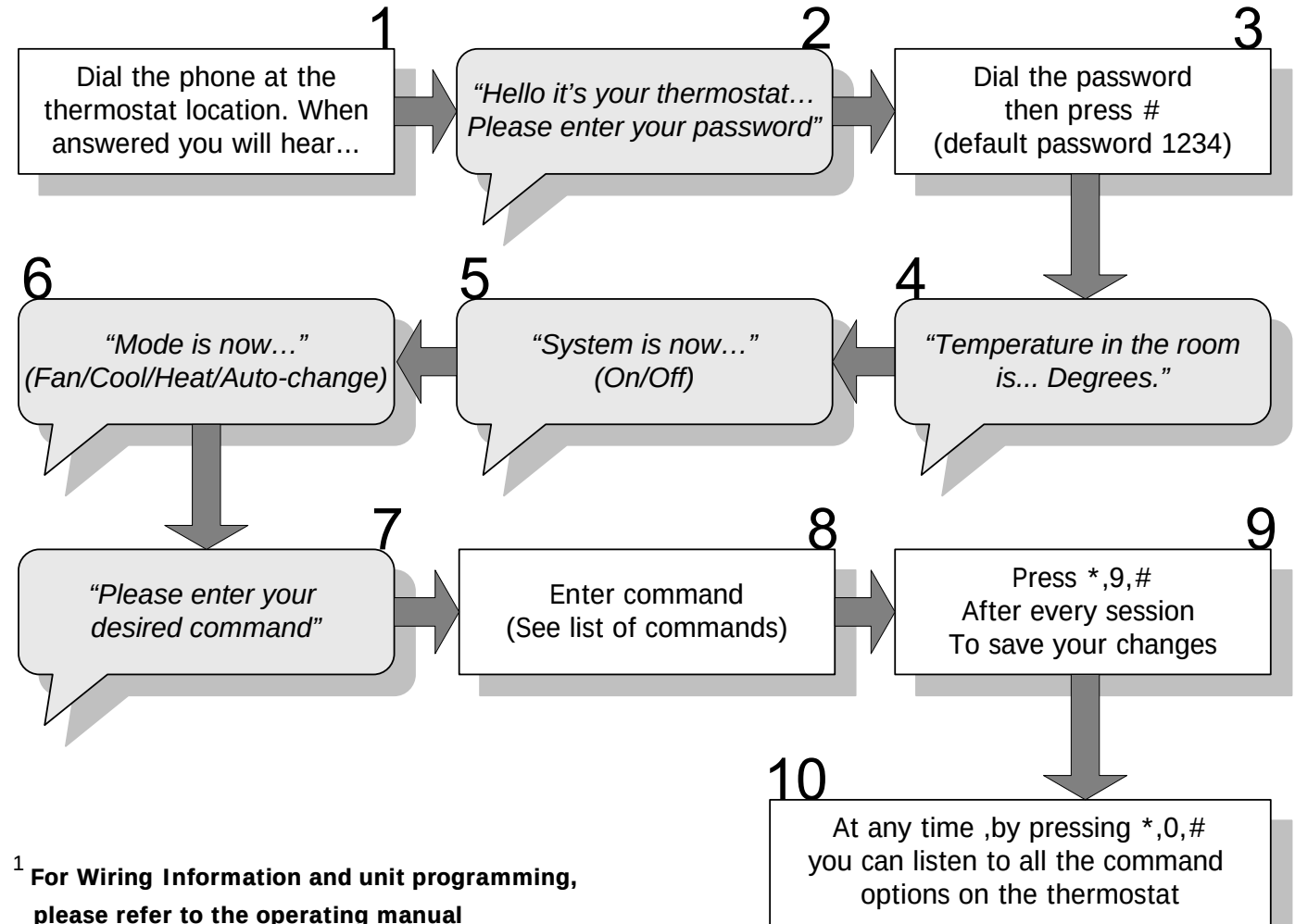


CEM-24 Series Talking Thermostat Quick Start Instructions for Users

Quick Start

List of commands to control the thermostat via the phone:

- *1,# - Turn System ON
- *2,# - Turn System OFF
- *3,# - Select cooling temperature
- *4,# - Select heating temperature
- *5,# - Select System mode:
 - 1,# - Select Auto HEAT/COOL
 - 2,# - Select FAN only
 - 3,# - Select Cooling only
 - 4,# - Select Heat only
- *6,# - Select Program On/Off:
 - 1,# - Select Program ON
 - 2,# - Select Program OFF
- *7,# - Select Economy mode:
 - 1,# - System in Economy mode (setback)
 - 2,# - System in Normal mode
- *8,# - Turn the "Out;Out" output ON or OFF
 - 24,# - The output is ON continuously
 - 00,# - Turn output OFF
 - XX,# - The output is ON for a set number of hours (XX=01 to 23 hours)
- *9,# - Press after every session in order to save your changes, then hang up to end the call



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Rev. 2.1 Date: 20 Nov 2007 Cat. P048022