

## Telephone Thermostats & Special Controllers

**Introduction:** By definition, the concept of thermostats and climate control is designed to enhance and facilitate the comfort level of its users.

Meitav-tec is therefore always thinking outside the box, looking for new ways to make not only the temperature comfortable, but also the method by which it is accessible.

We have developed controllers with integrated voice and telephone options, as well products which give the users the freedom to “custom-build” their control systems.

These unique items are less often talked about, but should by no means be ignored, as demand for them is high. We are proud to break into yet another market niche and once again, offer convenient solutions for particular climate-control needs.

UPDATE:



**The Comfort & Living Technology Exhibition-Milan, 2006**

Ricardo Roitman will be attending the 2006 MCE (Mostra Convegno Expocomfort) show in Milan, Italy, together with our agent *Deserti*.

Pad 22 Stand S36

## Telephone Thermostats

### CEO-24-HC22

**Wall-mount thermostat with telephone and voice capabilities, can be controlled from a remote location and CALLS-OUT TO USER IN CASE OF ALARM SITUATION.**

The CEO-24-HC22 series is the “big brother” (upgraded) version of the CEM-24. It offers all the same wonderful telephone and voice options, but has a bonus feature; **the CEO-24-HC22 calls out!**

[Read more \(page 2\)](#)

Thermostat with Telephone Communication



### CEM-24-Super

**Wall-mount thermostat with telephone and voice capabilities, can be controlled from a remote location.**

The CEM-24-Super series is an indispensable tool for any property owner, particularly one who owns a second home, cottage or condo. The CEM-24 allows the user to call it from a remote location and make modifications to settings such as mode, temperature and system On/Off.

[Read more \(page 3\)](#)

### CEV-24-Super

**Wall-mount thermostat with built-in speaker, specially designed for visually-impaired individuals.**

The CEV-24-Super series is the perfect thermostat for visually-impaired individuals. With voice commands clearly guiding the user, he/she is able to verify and change basic parameters such as mode and temperature.

[Read more \(page 4\)](#)

## Multi-Stage Controller

### M6000-T1-T2-AN

**The new and intelligent multi-stage controller that will solve all your problems !**

The M6000-T1-T2-AN controller is the easiest way to “custom-build” your HVAC control system.

Suitable for even the largest of applications such as chillers or large air-handling units, the M6000-T1-T2-AN allows you to pre-set all stages and parameters.

[Read more \(page 5\)](#)



## Lead-Lag Controller

The Lead-Lag controller is ideal for remote locations where two separate cooling units are used.

With one of the compressors being the primary unit and the second compressor being the back-up or stand-by unit, a special type of controller is needed, i.e.; the Lead-Lag controller.

[Read more \(page 6\)](#)



## CEO-24-HC22

**Wall-mount thermostat with telephone and voice capabilities, can be controlled from a remote location and CALLS-OUT TO USER IN CASE OF ALARM SITUATION.**

The CEO-24-HC22 series is the “big brother” (upgraded) version of the CEM-24. It offers all the same wonderful telephone and voice options, but has a bonus feature; **the CEO-24-HC22 calls out!** This means that the thermostat will call and notify the user if an alarm situation occurs, such as the temperature rising or dropping to a dangerous level. This is exceptionally useful for rooms where keeping the ambient temperature within range is crucial, such as computer rooms, as well for areas exposed to particularly harsh weather conditions.



The user may program up to 3 different telephone numbers and the CEO will call each one in turn in case of “no-answer” or in case an answering machine picks up. In addition, if the line is busy, the CEO will hang up and re-try the call every 2 minutes until it is able to get through.

As with the CEM-24, ideal locations for the CEO-24-HC22 are second homes, condos or cottages and installation remains extremely simple with no extra phone line required! Simply connect it to an already existing phone line as you would any other device such as a fax machine or an answering machine.

### Features:

- Telephone communication:
  - thermostat calls-out to user in case of alarm situation
  - call thermostat from remote location check or set mode and temperature from a remote location by calling thermostat
- Heat/Cool system configuration- up to 2 stages of Cool and 2 stages of Heat
- Alarm indication output
- Fault input, 24Vac
- 5-1-1 weekly program
- Economy mode (set-back/unoccupied mode)

\* Languages available: English, French, Spanish, Italian, German, Russian, Hebrew

## CEM-24-Super

**Wall-mount thermostat with telephone and voice capabilities, can be controlled from a remote location.**

The CEM-24-Super series is an indispensable tool for any property owner, particularly one who owns a second home, cottage or condo. The CEM-24 allows the user to call it from a remote location and make modifications to settings such as mode, temperature and system On/Off.



The CEM-24 connects to a regular, already existing phone line with **no extra installation needed!**

It does not require a dedicated phone line and is connected as just another device, in exactly the same way a fax or answering machine is.

The CEM-24 is ideal for all those times you forgot to turn off your air conditioner before a week-end getaway or want to turn on the heat ahead of time so that you don't walk into to a frozen upstate cottage. But above all, it offers users the basic peace of mind of knowing that they can always check the status of their home wherever, whenever.

### Features:

- Built-in Telephone Communication- check or set mode and temperature from a remote location by calling thermostat
- Selectable system configuration- Heat/Cool or Heat Pump
- Alarm indication output
- 5-1-1 weekly program
- Economy mode (set-back/unoccupied mode)

\* Languages available: English, French, Spanish, Italian, German, Russian, Hebrew

## CEV-24-Super

**Wall-mount thermostat with built-in speaker, specially designed for visually-impaired individuals.**

The CEV-24-Super series is the perfect thermostat for visually-impaired individuals. With voice commands clearly guiding the user, he/she is able to verify and change basic parameters such as mode and temperature.



At the touch of a button, the thermostat can give the current room temperature and describe which mode button the user has pressed. For example, the thermostat may say something like: "You have selected Cooling mode".

As quoted in The News (Air Conditioning, Heating, Refrigeration), one customer said:

***"my wife is totally blind and has for years complained about accessibility to items such as thermostats....she can now do anything she wants from anywhere in the house and feel confident she will get what she wants."***

The CEV-24-Super can also advise of the current temperature inside the room, the current outside temperature (acting as a thermometer), as well as the current time of day.

### Features:

- Built-in speaker with voice option
- Selectable system configuration- Heat/Cool or Heat Pump
- Up to 2 stages of Heat and 2 stages of Cool
- Outdoor sensor- option
- Alarm indication output
- 5-1-1 weekly program
- Economy mode (set-back/unoccupied mode)

\* Languages available: English, French, Spanish, Italian, German, Russian, Hebrew

## M6000-T1-T2-AN

### Intelligent and Fully programmable multi-stage controller

The M6000-T1-T2-AN controller is the easiest way to “custom-build” your HVAC control system.

Suitable for even the largest of applications such as chillers or large air-handling units, the

M6000-T1-T2-AN allows you to pre-set all stages and parameters (see example below).

Each stage corresponds to an output that can be individually programmed, and the M6000-T1-T2-AN offers 6 of these outputs.

In addition, it also offers 2 separate outputs for the Fans.

#### For example:

Each stage/output can be programmed as one of the following parameters:

- Set Point
- Input to operate by (analog, T1 or T2- inputs may be combined)
- Temperature differential (between stages)
- Logic to operate by (cool or heat)
- Compressor delay (yes or no)

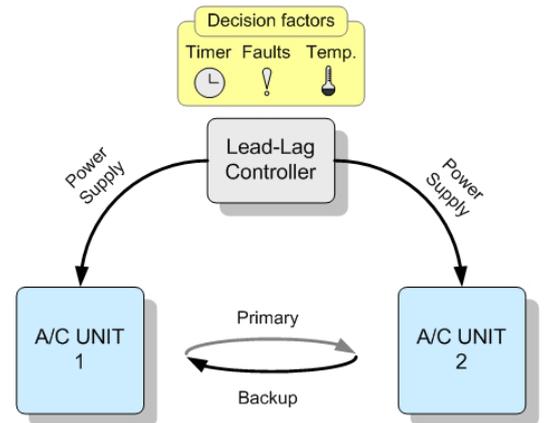


## Lead-Lag Controller

The Lead-Lag controller is ideal for remote locations where two separate cooling units are used. With one of the compressors being the primary unit and the second compressor being the back-up or stand-by unit, a special type of controller is needed, i.e.; the Lead-Lag controller. It controls the two cooling units by treating them as two different stages and operates according to either a time-dependent logic or a temperature-dependent logic.

Using the time-dependent logic, the controller will cycle each compressor "On/Off" every 24 hours, interchanging the primary unit with the stand-by one. This cycling method greatly reduces the wear and tear of the compressors.

However, because a maximum difference of 4°C is allowed between the room temperature and the set temperature, the controller will activate the stand-by unit if this difference is exceeded, even if 24 hrs have not yet passed. It will shut down the stand-by unit only once the temperature difference returns to within the 4°C range. This temperature-based control method will override the time-based logic when necessary.



In addition, a convenient ETN thermostat is mounted onto the Lead-Lag controller so that the ambient temperature may always be indicated.

### Features:

- Auto switch-over from one unit to the other every 24 hrs.
- On-duty unit compressor cycles between "On" and "Off" depending on room temp. and set temp.
- Manual switch-over (3 positions) between "Auto", "Off" and "Manual"
- Fault indication when ambient temperature rises above 28°C
- External sensor for ambient room temperature

