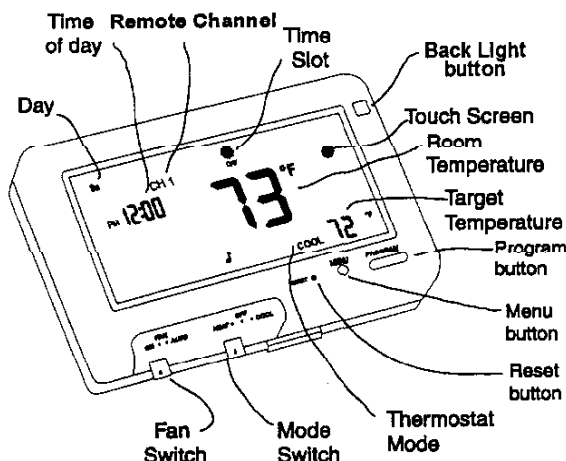


8082s OPERATION GUIDE

Operation 8082

ritetemp®



Statement of use: The GPMG8082 can be used with most 24 volt gas, oil or electric heating and air conditioning systems, single-stage heat pumps or gas millivolt heating systems. It cannot be used with 120 volt heating systems or multistage heat pumps.

Using a TOUCH SCREEN

Please take a moment to try out your touch screen itself.

To select a function on the touch screen, place your finger on the main temp display and give a short firm push. Try a "tap" of the finger or stylus. Your input must last long enough for the system to determine it is not an accidental 'bump'.

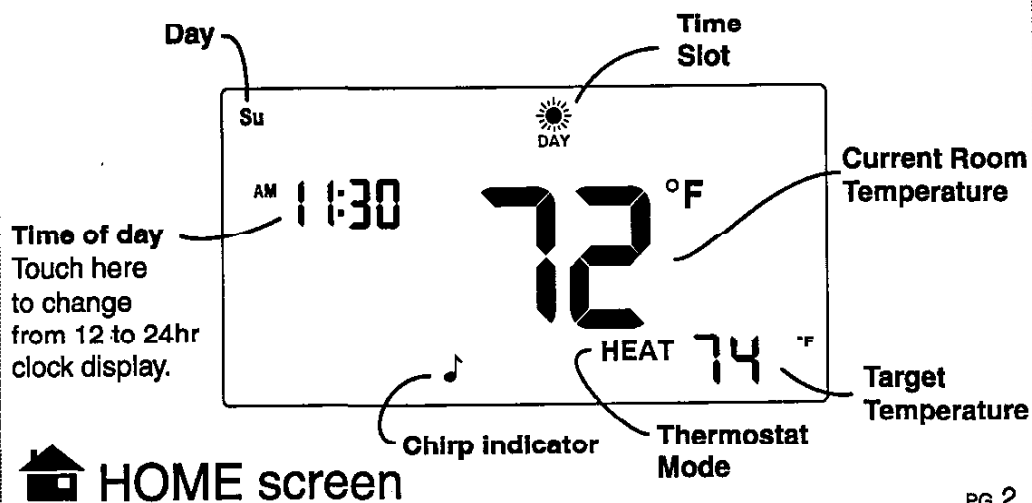
Using the stylus is more comfortable for some users. Again allow the system enough time to recognize your inputs. When you are comfortable with touch inputs, proceed.

PG 1

FOLD
LINE

Basic Screens

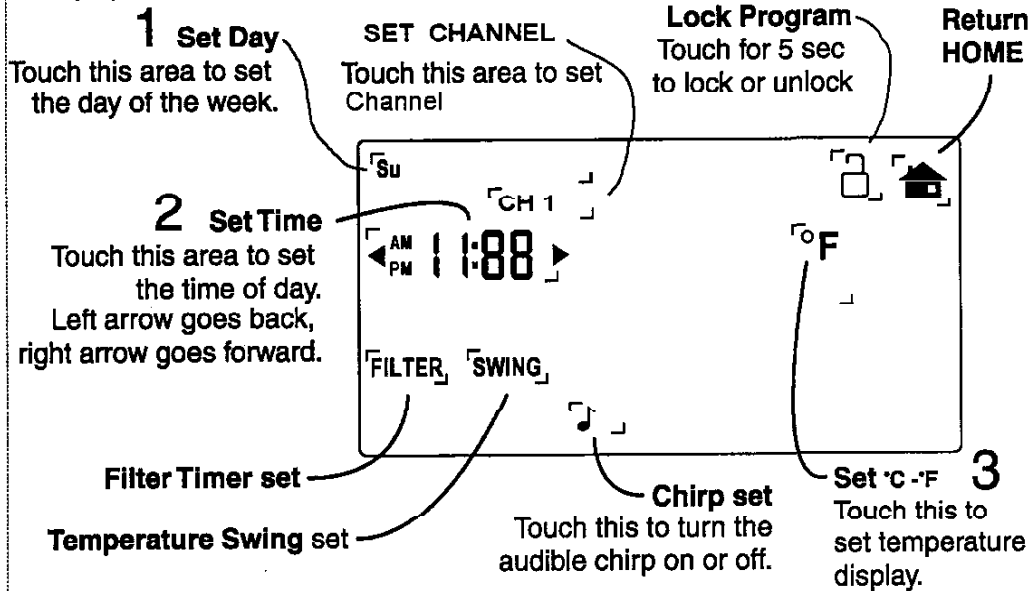
The **MODE SWITCH** of the 8082 must be in the **HEAT** or the **COOL** position to access all control functions. The 8082 Thermostat has 3 basic screens. The **HOME** screen is displayed when unit is operating your system. Touching the will always return you to this screen.



PG 2

MENU screen

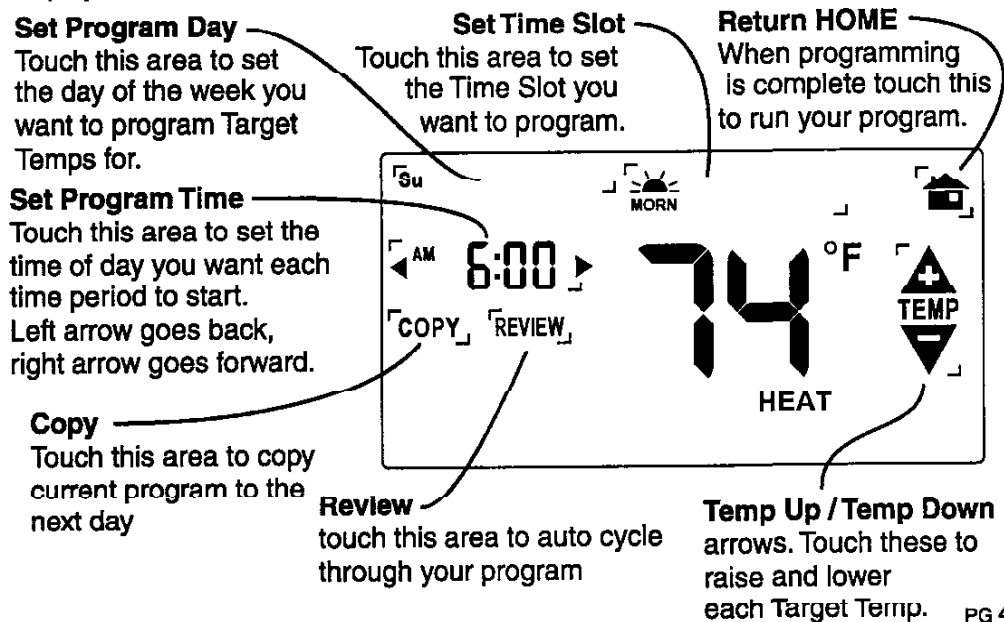
Displayed when the MENU button is pressed from the HOME screen.



PG 3

PROGRAM screen

Displayed when the PROGRAM button is pressed from the HOME screen.



PG 4

1 Configure

NOTE: The Mode Switch must be in **HEAT** or **COOL** mode to configure.

- **Press MENU to configure the thermostat.**
- **Set day of the week -**
Touch the **Day of the week** area to cycle through the days of the week to select the current day.
- **Set time of day -**
Touch the **Time of Day** arrows to move the time selection forward or backward until it displays the current time.
- **Set °C -°F display**
Touch the °F and it will toggle to °C.
- **Set audible chirp -**
Touch the musical note icon to select the chirp or no chirp.
- **Set Channel**
Touch the CH 1 icon to select the 1, 2 or 3.
- **Return HOME by touching the home icon.**

Su Mo Tu We Th Fr Sa

AM 11:88

Backward Forward

°F
°C



CH 1 2 3



PG 5

2 Auto-run

This Thermostat comes preprogrammed with an Energy-Star™ approved program. This program is recommended by the EPA for energy efficiency.



We strongly recommend that you Auto-Run this program for one week, and see if it works for you. If it does not fit your needs you can always input a custom program.

- To Auto-Run the Energy-Star™ program, select HEAT or COOL with the mode switch. The unit is now running the Energy-Star™ program.
- The clock is displayed on the left. The ambient temperature is displayed in the center of the LCD touch screen. The TIME SLOT icon indicates the TIME SLOT active in the Energy-Star™ program.
- The programmed temperature is shown on the lower right. For program details refer to the Energy-Star™ program chart below.

HEAT	MORN	DAY	EVEN	NITE	COOL	MORN	DAY	EVEN	NITE
	6:00am	8:00am	6:00pm	10:00pm		6:00am	8:00am	6:00pm	10:00pm
All Days	70°F	62°F	70°F	62°F	All Days	78°F	85°F	78°F	82°F

PG 6

3 Program

NOTE: 60 Second Rule-During programming, if a button is not pushed in 60 seconds, the unit will return to the home screen. Everything you have changed while programming will automatically be saved.

- Press **PROGRAM** to go to the programming screen.
- Select **HEAT** with the **HEAT/Cool MODE** switch.

Su Mo Tu We Th Fr

Select the day you want to program -

- Touch the **Day of the week** area to cycle through the days of the week to select the desired day.

MORN DAY EVEN NITE

Select the time slot you want to program -

- Touch the **Time slot** area to cycle through the 4 time slots, until it displays the desired time slot.

AM 1:88 PM

Select the time of day -

- Touch the **Time of Day** arrows to move the time selection forward or backward until it displays the desired time.

Backward Forward

PG 7

3 Program cont.

Select the desired temperature -

- Touch the **UP temp / Down temp** arrows.

TEMP

Repeat the above procedures for each day of the week and each time slot of the day as desired.

- **To REVIEW** you program touch **REVIEW**. Each time slot for each day or set of identical days, will be displayed every 3 seconds.

- **Return HOME** by touching the home icon.

To COPY the program from the current day to another day -

- Touch **COPY** on the program screen. The current day will remain solid, the destination day will flash.
- Touch the day area to advance the day and select a copy destination.
- Touch **COPY** again to copy all settings to the destination day.

Su Tu

To program for cooling -

- Select **COOL** with the **Heat/Cool MODE** switch and repeat the above procedure.

PG 8

Manual

The 8082 has 3 manual override commands. These are accessed by touching the Current Temp Display at the HOME screen (center of screen).

HOLD

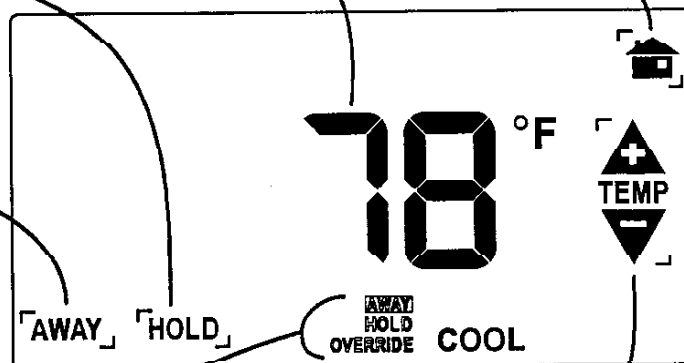
Touch this area to set a comfortable target temp for the system to hold until you return and remove **HOLD**.

AWAY

Touch this area to set an energy efficient target temp while you are away. Touch **AWAY** again when you return.

Target Temperature

Return HOME



Manual Override Indicators

Flashing shows which manual override you have selected.

Temp Up / Temp Down arrows

Touch these to raise and lower the manual override Target Temp.

MANUAL override screen

PG 9

Manual cont.

NOTE: The Mode Switch must be in **HEAT** or **COOL** mode to override.

Temporary OVERRIDE -

- At the Manual override screen, Touch the **Temp Up / Temp Down** arrows to select your desired temporary Target Temperature.
- Touch **HOME** to return to operation.

The **OVERRIDE** icon will flash indicating you have modified the Target Temp for the current Time Slot only (see PG9-Time Slot).

HOLD -

- At the Manual override screen, Touch **HOLD** to initiate a hold temperature.
- Touch the **Temp Up / Temp Down** arrows to select your hold temperature.
- Touch **HOME** to return to operation.

The **HOLD** icon will flash indicating you have changed the Target Temp. The system will **HOLD** this temperature until you return to this screen and *de-select* **HOLD**, by touching the **HOLD** icon again.

AWAY - Energy Efficient Pre-set -

- At the Manual override screen, touch **AWAY** to initiate the away temperature.
- **HEAT** 45F or **COOL** 90F will be displayed, you can modify this temperature.
- Your system is in **AWAY** mode. Touch **HOME** to return to operation.

The **AWAY** icon will flash indicating you have changed the Target Temp.

The system will maintain the **AWAY** temperature until you return to this screen and *de-select* **AWAY**, by touching the **AWAY** icon again.

PG 10

4 Special Features

Swing

- Swing setting determines the temperature difference from ON to OFF that the thermostat will command the HVAC system to run.
- With the MODE switch in HEAT or COOL, press the **MENU** button.
- Touch the **SWING** icon and the current setting of temp swing is shown on the display (default at 3).
- To change the swing, touch the left or right arrows. The furnace will cycle more at the lower numbers as it tries to keep your set point constant.

SWING

3

Filter

The 8082 has a feature that keeps track of actual furnace run time and reminds you to periodically replace your system's air filter.

- Press **MENU** and touch **FILTER** icon.
- This will display your accumulated filter run time.
- To input a new filter life time, touch the **FILTER** icon for 3 seconds.
- Input the lifetime hours for your new filter.
- To zero the filter timer for a new filter, touch the accumulated time display.
- To leave the filter display, touch **HOME**.

FILTER

250

PG 11

4 Spec. Featr. cont.

Lock

Allows you to prevent any changes in custom settings.

- To lock, touch the LOCK icon on the MENU screen for 5 sec.
- To unlock, Touch the locked icon for 5 sec.

Low Battery

- When the batteries are low, the battery icon will come on and flash. The two AA Batteries in the unit need to be replaced. In some installations your heater system will stop functioning when the thermostat loses power. **Replace batteries as soon as you see this warning.** The thermostat programs will remain for 30 seconds while the batteries are changed.
- **Do not take longer than 30 sec** to change the batteries in your unit or you will lose all custom settings and all programming. Only the Energy-Star™ program will remain. Once the batteries are replaced, the system will return to normal in 2 seconds.

LOW BATT

12/24 hour

- The thermostat can display time in 12 or 24 hour formats. At the HOME screen touch the time display to toggle from 12 to 24 hr display.

PG 12

Back Light

- Press any keys or buttons, the backlight will come on for 1 min.

PG 13

Install guide 8082

ritetemp

Caution

To avoid electrical shock and to prevent damage to the furnace, air conditioner, and thermostat, disconnect the power supply before beginning work. This can be done at the circuit breaker, or at the appliance.

Tools

You will need #1 Phillips screwdriver (small) and Drill with 3/16-in. (4.8mm) bit for this installation.

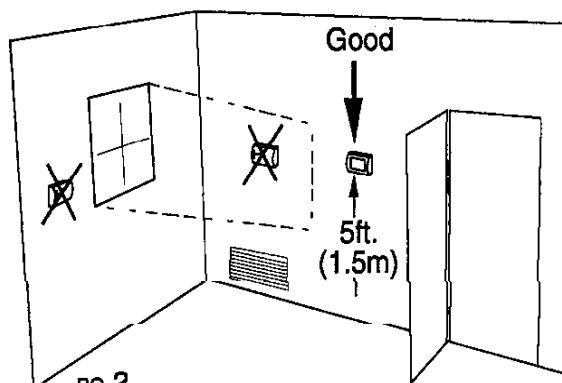
1 Location

- On replacement installations, mount the new thermostat in place of the old one if possible.
- On new installations, follow the guidelines listed below.
- Locate the thermostat on an inside wall, about 5 ft. (1.5m) above the floor, and in a room that is used often.
- Do not install it where there are unusual heating conditions, such as: in direct sunlight; near a lamp, radio, television, radiator register, or fireplace; near hot water pipes in a wall; near a stove on the other side of a wall.

PG 1

fold and staple

- Do not locate in unusual cooling conditions, such as: on a wall separating an unheated room; or in a draft from a stairwell, door, or window.
- Do not locate in a damp area.
This can lead to corrosion that will shorten thermostat life.
- Do not locate where air circulation is poor, such as: in a corner or an alcove; or behind an open door.
- Do not install the unit until all construction work and painting has been completed.
- This thermostat does not require leveling.



PG 2

CAUTION

- Your thermostat is a precise instrument.
- Please handle it with care.
- Turn off electricity to the appliance before installing or servicing thermostat or any part of the system. Do not turn electricity back on until work is completed.
- Do not short (jumper) across electric terminals at control on furnace or air conditioner to test the system.
- This will damage the thermostat and void your warranty.
- All wiring must conform to local codes and ordinances.
- This thermostat is designed for use with 24 volt AC and millivolt systems. The thermostat should be limited to a maximum of 1.0 amps; higher amperage may cause damage to the thermostat.

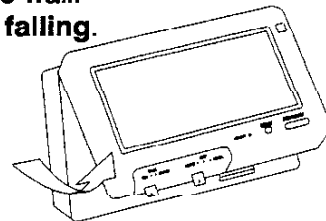
2 Remove old unit

- Switch electricity to the furnace and air conditioner OFF; then proceed with the following steps.
- Remove cover from old thermostat. Most are snap-on types and simply pull off. Some have locking screws on the side or front. These must be loosened. Note the letters printed near the terminals. Attach labels (enclosed) to each wire for identification.

Caution

Read instructions carefully before removing any wiring from existing thermostat. Wires must be labeled before they are removed. When removing wires from their terminals, ignore the color of the wires since these may not comply with the standard.

- Remove and label the wires one at a time.
- Make sure the wires **do not fall back inside** the wall.
- Wind them around a pencil to **keep them from falling**.
- Loosen all screws on the old thermostat and remove it from the wall.



3 Mount the 8082

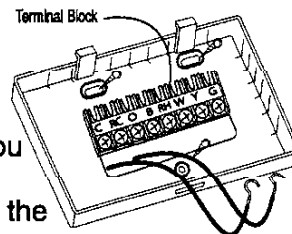
- Separate front from back of unit. Press up on the catch on bottom of thermostat and swing the body away from the base, lift up to remove the body from the base.

PG 3

3 Mounting cont.

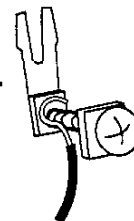
- Hold the base against the wall, with the wires coming through the opening below the terminal block.
- Position the base for best appearance
- Attach the base to the wall with the two screws provided.

If you are mounting the base to sheet rock or if you are using the old mounting holes, use the plastic anchors provided. Drill a 3/16-in.(4.8mm) hole for the insert at each screw location, then mount the base.



4 Connect Wires

- Strip insulation 3/8 in. (9.5mm) from wire ends. Take care not to damage the labels for each wire in handling.
- Connect labeled wires to terminal with corresponding letter.
- Bend the wire slightly, insert the wire under the contact plate and tighten the screw down onto the wire.
- If the original wires were not labeled, or had different labels, use the wiring reference below to verify your connections.



PG 4

Caution

Do not allow wires to touch each other or parts on thermostat. Wires must be routed through the hole in the back plate, below the terminal block, or they will hit parts on the cover.

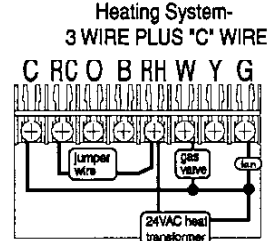
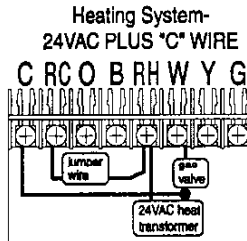
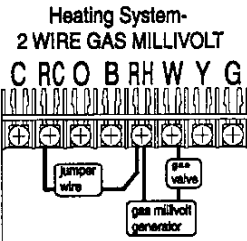
If there is a wire marked "C", connect it. This thermostat is designed to run off the 24VAC power of the C wire, extending battery life up to 5 times. If there is no "C" wire, the thermostat runs on batteries and/or can borrow power (See page10).

Wiring Reference

Heating Systems

- C - AC POWER TO RUN THE THERMOSTAT
- O - DAMPER OR CHANGEOVER VALVE (POWERED IN COOL)
- B - DAMPER OR CHANGEOVER VALVE (POWERED IN HEAT)

- RH - HEATER TRANSFORMER
- W - HEATING CONTROL
- G - FAN RELAY

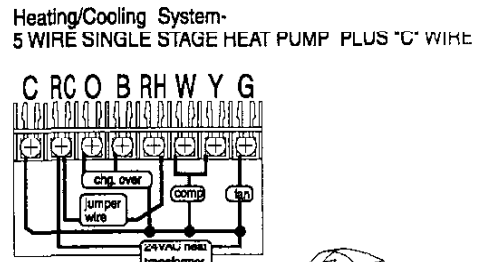
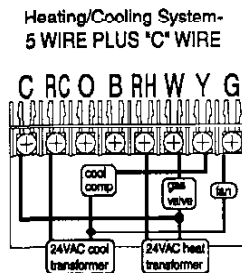
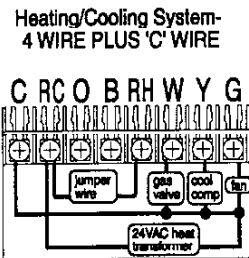


PG 5

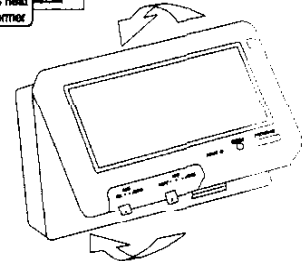
Heating /Cooling Systems

- C - AC POWER TO RUN THE THERMOSTAT
- RC - COOLING TRANSFORMER
- O - DAMPER OR CHANGEOVER VALVE (POWERED IN COOL)
- B - DAMPER OR CHANGEOVER VALVE (POWERED IN HEAT)

- RH - HEATER TRANSFORMER
- W - HEATING CONTROL
- Y - COOLING COMPRESSOR
- G - FAN RELAY



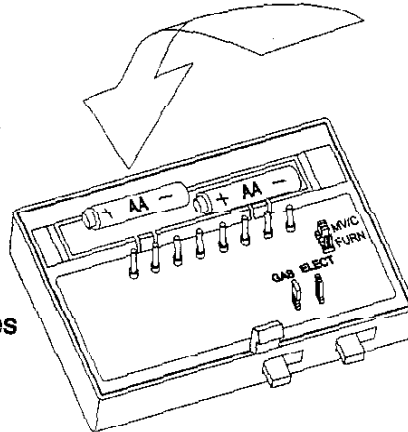
- When you have finished making connections, hook the top of the body onto the base, swing the body down, and snap the body onto the base.



PG 6

5 Install Batteries

- The GPMG 8082 requires batteries to operate your furnace and retain its programming in memory.
- Switch MODE switch to OFF and the FAN switch to AUTO.
- Remove the unit from the wall turn it over and install 2 AA alkaline batteries according to the polarity noted in the compartment.
- Press the **RESET** button to clear transient program memory. Initially, all LCD segments will go off.



LOWBATT

NOTE: Replace the batteries when this LOW battery indicator appears on the display or once a year. When replacing batteries, you have approximately half minute before your custom program is lost.

PG 7

6 Check Unit

Follow these procedures to verify you have correctly installed the unit.

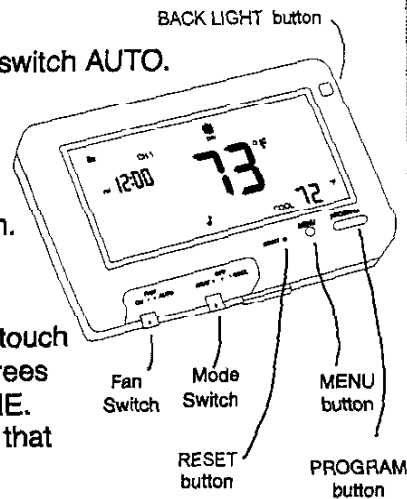
- **To check HEAT mode:**
Set the mode switch to HEAT. Set the fan switch AUTO.
- Touch the main temperature display then touch the TEMP UP arrow to raise the set point to 90deg. Touch HOME. Allow the system 5 min to respond.
- Verify that heat is blowing from the system.

- **To check COOL mode:**
Set the mode switch to COOL.
- Touch the main temperature display then touch the TEMP DOWN button to a temp 5 degrees below the room temperature. Touch HOME.
- Allow the system 5 min to respond. Verify that cool air is blowing from the system.

To check Fan: (If you connected the G wire - fan relay)

- Switch Mode to OFF during fan test.
- Switch the FAN switch to the ON position. Verify air is blowing from vents.

PG 8 • After test, return to Fan switch to **AUTO**, and Mode to **HEAT** or **COOL**.



6 Check Unit cont.

Note: If you have an electric furnace system and the blower does not operate after installation, remove the thermostat, turn it over, and find the electric/gas heat selector jumper on the back of the control unit. Switch the Gas/Elect. jumper to Elect. to "Elect"(see Diag below).

Congratulations, you have successfully installed your unit.
Please proceed to the OPERATING Guide to initialize the new thermostat.
REMEMBER, Mode Switch must be in HEAT or COOL to operate the thermostat.

7 Power Options

1) The 8082 can run on batteries only. (2AA Alkaline) 24VAC and MV
The batteries will last well over 1 year. If the batteries are not replaced the thermostat will stop working. **Use the MV/C power jumper position.**

2) The 8082 can run on the C wire if available. 24VAC ONLY
As shown in the wiring diagrams, The C wire is the other side of the 24VAC heating transformer. If the C wire is used, the batteries are then for AC power loss only and will last much longer. The thermostat will continue working if the batteries die. **Use the MV/C power jumper position.**

pg 9

FOR ADVANCED USERS ONLY

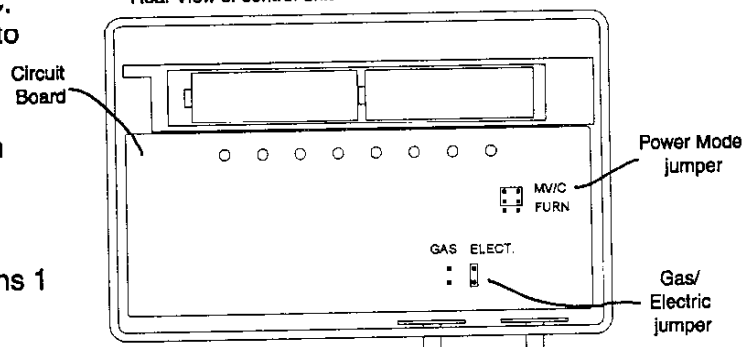
3) The 8082 can run on 24VAC series power.

Power for the thermostat comes from the W and RH wires. The batteries are then for AC power loss only and will last much longer. The thermostat will continue working if the batteries die. **Use the FURN power jumper position.**

To locate the Power Mode Jumpers. Remove the control unit from the wall mount, turn it over, and locate the jumper. It is set at the factory on MV/C. Change it from MV/C to FURN to use series power.

Note: This option works with 24VAC, .1 to 1 amp. systems only. Verify operation. If it doesn't work go back to options 1 or 2 above.

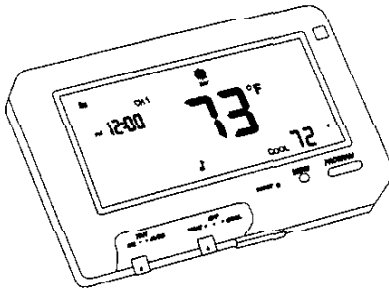
Rear View of control unit



pg 10

8082 Features

The GPMG8082 can be used with most 24 volt gas, oil or electric heating and air conditioning systems, single-stage heat pumps or gas millivolt heating systems. It cannot be used with 120 volt heating systems or multistage heat pumps. Ask The Home Depot for other thermostats to control those systems.



The GPMG8082 is programmable. There are four programming periods per day. Each period can be programmed separately.

You can use the built-in time/temperature programs, or alter them to suit your schedule.

The GPMG8082 separately programs each weekday, Saturday, and Sunday - for both heating and cooling.

You can easily override the programmed temperatures for as little as one programming period or for an entire vacation.

The large liquid crystal touch screen display shows time, day of the week, room and set temperatures. It will also remind you when the filter should be changed in your blower.

Temperature swing adjustment lets you fine-tune your system for maximum comfort and energy efficiency.

A 4-minute minimum off time in COOL protects your air conditioning system from being damaged.

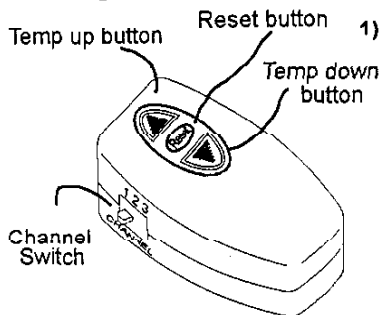
Two "AA" batteries (included) are used to retain your time and temperature programs, and to run the thermostat.

PG 11

Remote Unit

REMOTE OVERRIDE TEMPERATURE

The 8082 can be temporarily changed by RF remote control. Before operation, make sure the channel setting of the main unit is consistent with the attached handset. The effective range is about 30 feet.



1) To set the channel of the main unit, enter MENU screen and touch "CH" to select your desired channel number and then touch "HOME" icons to confirm.

2) To set the channel of the handset, slide the switch to your desired channel number.

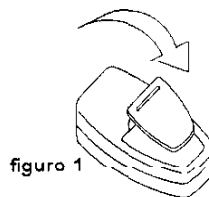


figure 1

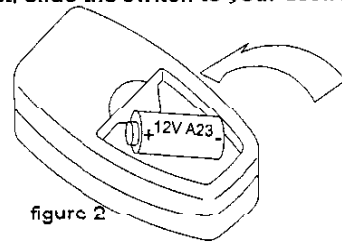


figure 2

Install Battery

Pull down and then lift up the compartment cover as figure 1,2

Load a 12V A23/MN21-SIZE alkaline battery as shown in the illustration and then replace the compartment cover closed.

PG 12

Run remote override temperature cont.

- With the Mode switch of the main unit in HEAT or COOL, press the handset's UP or DOWN arrows buttons to encode the signal to temporarily change the control temperature by 1 degree per step. Maximum is 6 steps at a time.
- The handset beeps to let you know when certain operation are being performed.
- After 2 seconds at the end of pressing. The handset beeps to confirm that the encoded signal have been succeeded in launching. Please note that there are three beep pattern and explains their meaning as the followings.

Beep Pattern	Meaning
One short	• Completed sending from CH 1
Two short	• Completed sending from CH 2
Three short	• Completed sending from CH 3

- The main unit will beep a lower frequency tone to respond when the encoded signal has been succeeded in receiving.
- The OVERRIDE icon comes on which shows the displayed temperature may be different from the programmed setting.
- To cancel the OVERRIDE, Press the handset's "RESET" button once or until at the start of the next time period.

PG 13

Remote Control

• Set Channel on Remote-

To set the channel of the remote, slide the CHANNEL switch to your desired channel number.

• Set Channel on the main unit-

To set the channel of the main unit, press MENU and touch "CH" to select the same channel number as the remote and then touch "HOME".

• Temporary temperature override -

With the Mode switch of the main unit in HEAT or COOL and the unit at the HOME screen, press the remote's UP or DOWN arrows buttons to change temperature setting of the system.

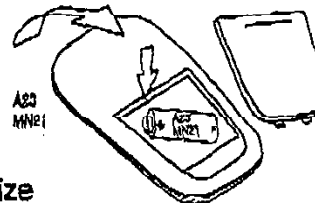
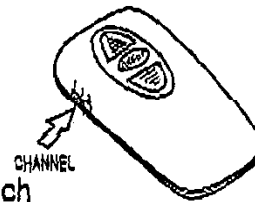
The remote beeps to let you know it is working. The main unit beeps when it receives a remote command. The OVERRIDE icon comes on which shows the displayed temperature may be different from the programmed setting.

• To cancel the Remote temperature OVERRIDE -

Press the remote's "RESET" button once. The main unit will automatically return to its program at the start of the next time slot.

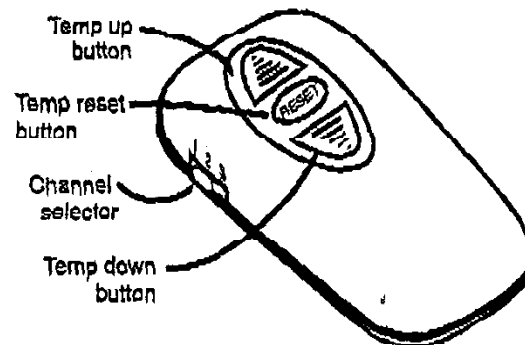
• To Replace Batteries in the remote -

Open the compartment as shown. Insert an A23 MN21 size battery as shown and then replace the cover closed.



Beep Pattern	Meaning
One short	Completed sending from CH 1
Two short	Completed sending from CH 2
Three short	Completed sending from CH 3

Note: The unit sends a one degree increment for each time you press the UP or DOWN arrow on the remote. Pressing the remote once per 3 second interval gives the unit time to respond to your command. Faster pressing can give unreliable results.



Remote Control frequency 312MHz.

"Modifications not authorized by the manufacturer may void users authority to operate this device"

This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.