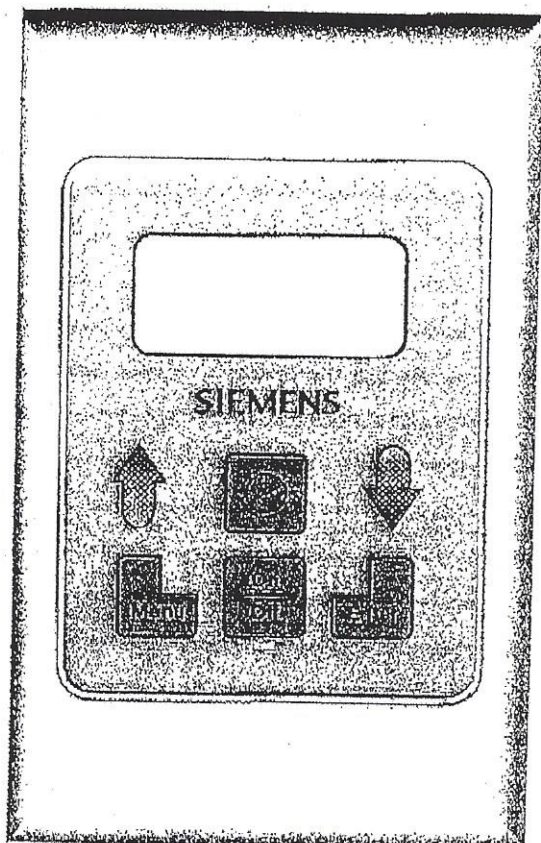


Siemline
programmable



NEW

- Single control solution for residential air or commercial air conditioning
- Siemline touchpad to suit architectural requirements
- Simple to operate
- Input for remote control via telephone (optional)
- LCD screen backlit during adjustment only
 - ✓ Timeclock or timer
 - ✓ Heating and cooling control
 - ✓ Fan speed control
 - ✓ Zone damper control
 - ✓ Customised text messages
 - Eg. - External plant fault
 - Service required
 - Call concierge

SEZ5 Residential Air Conditioning Controller

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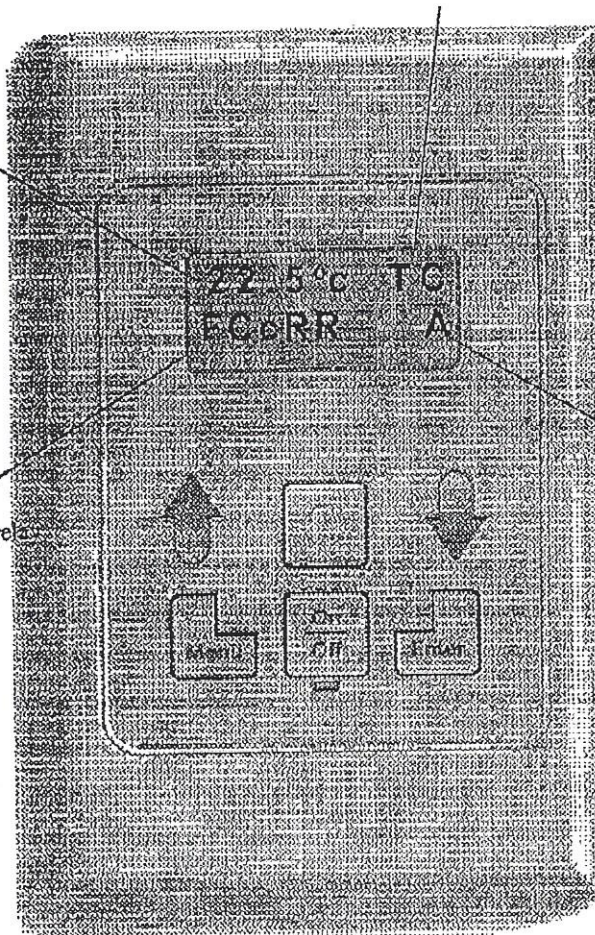
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The Standard Display Screen

'TC' or 'T' = Operating under Timeclock Program
 'RT' or 'R' = Operating under Run Timer function
 'SB' or 'S' = Operating under SetBack function

Setpoint Temperature



Relay
 Configuration.
 Uppercase indicates relay
 is energised.
 F = Fan
 C = Compressor
 R = Rev. Valve
 H = Elect. Heat
 Z = Zone

Mode:
 A = Auto
 V = Vent only
 C = Cool
 H = Heat

* This picture is for explanatory purposes only. The appearance may vary slightly depending on the exact model of the touch pad.

1.0 Quick Start Options

All standard menu options are accessible from the **DEFAULT DISPLAY SCREEN**.

All clock menu options are accessible from the **CLOCK DISPLAY SCREEN**.

Press the **CLOCK** button to switch between the **DEFAULT DISPLAY SCREEN** and the **CLOCK DISPLAY SCREEN**.

To change the setpoint, press the **ARROW** buttons.

The **MENU** button when pressed will access the various menu screens.

While in the menu screens the **MENU** button, when pressed, takes you back one step.

The **ENTER** button when pressed moves forward through the various screens, selecting options and saving settings.

The **ARROW** buttons, when pressed in a menu, either cycle the cursor and scroll the screen through the various options available, or, alter the value of the selected variable.

Press and hold the **ARROW** button to quickly scroll the selected variable.

2.0 Standard Menu Options

While viewing the **DEFAULT DISPLAY SCREEN** (see previous picture) press the **MENU** button to gain access to the **STANDARD MENU OPTIONS**. Use the **ARROW** buttons to cycle the cursor to the desired menu option, then press the **ENTER** button to select that option.

Pressing the **MENU** button (or selecting 'Exit') will exit the current selection if you require.

2.1 To Change the Mode

Select 'Set Mode' from the **STANDARD MENU OPTIONS SCREEN** (see section 2.0) and the **MODE SELECTION SCREEN** will appear. (Quick Tip: Press **MENU**, **DOWN**, **ENTER**)

The current mode will be displayed in **CAPITALS**. Scroll down with the **DOWN ARROW** to see all the available modes and determine which one is active (in **CAPITALS**). Changing the active mode is as simple as moving it to the top line of the display (under the flashing cursor) and pressing the **ENTER** button.

NOTE: The new setting will change to **CAPITALS**, the old setting will revert to lower case and the mode symbol in the **DEFAULT DISPLAY SCREEN** will reflect the new setting.

2.2 To Set the Fan Speed (3 speed models only)

Select 'FanSpeed' from the **STANDARD MENU OPTIONS SCREEN**.

The current fan speed setting will be shown in **CAPITALS** and the cursor will highlight the first option.

Use the **ARROW** buttons to move the cursor to the required fan speed setting.

Press the **ENTER** button to save the new value and return to the **DEFAULT DISPLAY SCREEN**.

2.3 To Select the Zone(s) (Zoning models only)

Select 'ZoneSlect' from the **STANDARD MENU OPTIONS SCREEN**.

The current zone setting will be shown in **CAPITALS**. Scroll down with the **DOWN ARROW** to see all the available options and determine which one is active (in **CAPITALS**).

Use the **ARROW** buttons to move the cursor to the required zone setting. (Both is located at the bottom of the menu.)

Press the **ENTER** button to save the new value and return to the **DEFAULT DISPLAY SCREEN**.

2.4 Changing the HeatFan Setting

Select 'HeatFan' from the **STANDARD MENU OPTIONS SCREEN**.

The current heatfan setting will be shown in **CAPITALS** and the cursor will highlight the first option.

Use the **ARROW** buttons to move the cursor to the required setting.

The "Auto/Cyc" setting will enable the indoor fan to cycle off after heat.

The "Contin." setting will keep the indoor fan running between heat calls.

Note: The fan can never cycle off in cool mode or during a cool or heat call.

Press the **ENTER** button to save the new value and return to the **DEFAULT DISPLAY SCREEN**.

2.5 To Set the Run Timer (After Hours Timer)

Operation: With the Run Timer enabled, and if the system is off, pressing the On/Off button will start the system in Run Timer Mode. The system will run for the duration of time that the Run Timer is set to, after which the system will turn itself off.

- Select 'RunTimer' from the STANDARD MENU OPTIONS SCREEN and the RUN TIMER EDIT SCREEN will appear.
- The cursor will highlight the minutes space.
- Use the ARROW buttons to alter the hours shown (in ten minute increments) to the required period (up to 24 hours).
- Press and hold the ARROWS to scroll numbers quickly.
- Press the ENTER button to save the new value and return to the DEFAULT DISPLAY SCREEN.
- To disable the Run Timer, select the minimum value of "----" and press enter.
- NOTE: The Run Timer status can be determined from the STANDARD MENU OPTIONS SCREEN. If the Run Timer is enabled, "RUNTIMER" will appear in CAPITAL letters in this screen.

2.6 To Edit the Setback Temperatures

Operation: Setback is used to maintain temperature within preset limits at All Times. If the temperature moves outside those limits the Controller will turn the system On and heat or cool as required to keep the temperature within the preset limits. These limits are separate and distinct from the normal setpoint.

- Select 'Setback' from the STANDARD MENU OPTIONS SCREEN and the SETBACK EDIT SCREEN will appear.
- The cursor will highlight the minimum temperature value.
- Use the ARROW buttons to alter the value to the required temperature (in 1°c increments).
- Press ENTER to save and the cursor moves to the maximum temperature value.
- Use the ARROW buttons alter the value to the required temperature (in 1°c increments).
- Press ENTER to save and return to the DEFAULT DISPLAY SCREEN.

To disable the setback features, select a minimum of "----" and a maximum of "----". These "----" settings are found by scrolling the minimum all the way down, and the maximum all the way up.

NOTE: The setback function is enabled whenever there is at least one valid limit set as detailed above. The setback temperatures are to be linked to setpoint in the following manner:
 The highest minimum setback temperature allowed is SETPOINT MINUS 2°
 The lowest maximum setback temperature allowed is SETPOINT PLUS 2°
 The Setback Range is from 5 - 50°c.

2.7 To Edit the System Settings. (Advanced Users and Service Personnel Only)

CHANGING THESE SETTINGS MAY ADVERSELY AFFECT SYSTEM OPERATION AND IN EXTREME CASES MAY CAUSE SYSTEM DAMAGE.

Select 'Settings' from the STANDARD MENU OPTIONS SCREEN to enter the SETTINGS SUB-MENU SCREEN.

The line 'CAUTION!' will alternate with 'Service' and 'use only'.

Press either ARROW button to scroll the cursor from 'Exit' to 'Proceed' then press ENTER to access the SETTINGS SUB-MENU SCREEN.

2.7.1 To Calibrate the Sensor

Select 'Calibrat' from the SETTINGS SUB-MENU SCREEN using the ARROW buttons then press ENTER. (Refer to section 2.7 for entering the SETTINGS SUB-MENU).

The CALIBRATION EDIT SCREEN will appear showing the current calibrated temp and the offset in parenthesis beneath.

The cursor will highlight the current calibrated temp. Using the ARROW buttons, this value may be altered in incre-

ments of 0.5°C until the correct temperature is showing.
Press ENTER to save and the display will return to the SETTINGS SUB-MENU SCREEN.

2.7.2 To Select Delay Type

Highlight 'Delays' from the SETTINGS SUB-MENU SCREEN, then press ENTER to access the DELAY SELECT SCREEN. The current Delay setting will appear in CAPITALS. Use the ARROW buttons to highlight the required Delay setting then press ENTER to save and return to the SETTINGS SUB-MENU SCREEN.

Safety = 4 minutes (min)
Extended = 40 seconds (min)
Standard = 4 seconds (min)
Instant = 1 second (min), 4 seconds (max)

2.7.3 To Edit Deadband

Highlight 'Deadband' from the SETTINGS SUB-MENU SCREEN, then press ENTER to go to the DEADBAND EDIT SCREEN. The cursor will highlight the deadband value.

Use the ARROW buttons to alter the value in 1°C increments from 0 to 3.

Press ENTER to save and return to SETTINGS SUB-MENU SCREEN.

NOTE: A deadband value other than 0 will create separate Heating and Cooling setpoints (half of the deadband value either side of the displayed setpoint) as displayed.

2.7.4 To Edit Control Band

Highlight 'CtrlBand' from the SETTINGS SUB-MENU SCREEN, then press ENTER to go to the CONTROL BAND EDIT SCREEN.

The cursor will highlight the Heating value. Use the ARROW buttons to change the value. Press ENTER to save the value and move the cursor to the Cooling value. Now change this value by using the ARROW buttons. Press ENTER to save and return to the SETTINGS SUB-MENU SCREEN.

There is a separate control band for Heating and Cooling working from the heating and cooling setpoints dictated by the DEADBAND.

SINGLE STAGE CONTROLLERS: The control band for this single stage controller is adjustable in 0.5°C increments from 0.5 to 1.5, resulting in a switching differential equal to the control band value and stage separation also equal to the control band value.

TWO STAGE CONTROLLERS: The control band for this two stage controller is adjustable in 1.0°C increments from 1.0 to 3.0, resulting in a switching differential for each stage equal to half the control band value and stage separation equal to half the control band value.

THREE STAGE CONTROLLERS: The control band for this three stage controller can either be 1.5°C or 3.0°C, resulting in a switching differential for each stage equal to $\frac{1}{3}$ the control band value and stage separation equal to $\frac{1}{3}$ the control band value.

2.7.5 To Edit the Service Timer

Highlight 'SvcTimer' from the SETTINGS SUB-MENU SCREEN, then press ENTER to go to the SERVICE TIMER EDIT SCREEN

Use the ARROW buttons to move the cursor to highlight 'Set'. Press the ENTER button and the cursor will highlight the number of hours. Use the ARROW button to change the hours shown in increments of 10 hrs.

Press ENTER and the Service Timer will reset and the cursor will move back to highlight 'Set'.

To disable the service timer, select a set time of "—".

NOTE: The Due Value is the time remaining until the Service Timer message appears on the display. This value will revert to the Set Value when the above procedure is followed.

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2.7.5.1 To Edit the Service Timer Message

While in the **SERVICE TIMER EDIT SCREEN** use the **ARROW** buttons to scroll the cursor down to highlight 'Edit Msg'. Press **ENTER** to access the **SERVICE TIMER MESSAGE EDIT SCREEN**. The default message is "SERVICE REQUIRED". The cursor will highlight the first letter. Using the **ARROW** buttons, select the alpha/numeric symbol required then press **ENTER** to save and move to the next letter. (Press **MENU** to go back, if required.) Repeat until the both 8 character lines are complete. Press **ENTER** to save and return to **SERVICE TIMER EDIT SCREEN**. To return to the **DEFAULT DISPLAY SCREEN** press **MENU**, or highlight 'Exit' with the cursor and press **ENTER** until the main screen is visible.

3.0 Clock Menu Options

PLEASE NOTE: This clock section is only relevant if you have purchased the clock module and plugged it in to the relay module. The clock module CAN BE plugged in (and removed) while the relay module is powered up and running.

From the **DEFAULT DISPLAY SCREEN** press the **CLOCK** button to enter the **CLOCK DISPLAY SCREEN**. While the **CLOCK DISPLAY SCREEN** is displayed press the **MENU** button to enter the **TIMECLOCK MENU OPTIONS SCREEN**. Use the arrow buttons to cycle the cursor to the desired menu option, then press the **ENTER** button to move to the **EDIT SCREEN** for that menu option.

3.1 To Set the Clock

Select 'SetClock' from the **TIMECLOCK MENU OPTIONS SCREEN** (see Section 3.0) then press **ENTER** and the **SET CLOCK EDIT SCREEN** will appear. The cursor will highlight the Hour value. Use the **ARROW** buttons to select the correct hour (watch for am/pm), then press **ENTER**. Repeat this procedure for the Minutes, Day, Month and Year values. After pressing **ENTER** on the Year, the display will return to the **CLOCK DISPLAY SCREEN**.

3.2 To Edit the Timeclock Programs

Select 'SetProgs' from the **TIMECLOCK MENU OPTIONS SCREEN** (see Section 3.0) to go to the **SET PROGRAM EDIT SCREEN**. The cursor will highlight 'Exit'. Use the **ARROW** buttons to select the Timeclock program to be edited, then press **ENTER** to move to the **SET START TIME SCREEN**.

The cursor will highlight the minutes value, Use the **ARROW** buttons to select the correct time in 10 minute increments, then press **ENTER**. The display will then change to the **SET STOP TIME SCREEN**. Follow the same procedure as detailed above to set the stop time. The display will then change to the **SET RUN DAYS SCREEN**. This is the screen at which you define the days that are going to use these start and stop times. Use the **ARROW** buttons to toggle between **UPPER** and lower case. The cursor will highlight the first letter on the bottom line, representing Sunday. These letters "SMTWTFSS", when made **UPPERCASE**, attach the start and stop times to that day of the week. To ignore the start and stop times on a particular day, make the corresponding letter lowercase. Press **ENTER** to save and move the cursor to the next letter. Repeat the procedure detailed above for each day of the week. Press **MENU** to go back one letter if required. Pressing **ENTER** after Saturday will return the display to the **SET PROGRAMME EDIT SCREEN** and the cursor will be highlighting the last edited program. To return to the **CLOCK DISPLAY SCREEN**, simply use the arrows to navigate back up to the exit options and press the **ENTER** button. To enter more programs, use the **ARROW** buttons to select another program and repeat entire process. **NOTE:** Active Programs (i.e. programs with a start or stop time or both, AND with active days) will appear in **CAPITALS**. (e.g. "PROG 02" = active; "prog 02" = not active) To disable a program, select a start & stop time of "--:--".

3.3 To Set Holidays

NOTE: Active Holidays (i.e. ONLY holidays with a start AND stop date) will appear in **CAPITALS**. Active Holidays will cause the system to ignore timeclock switching (on and off).

Holidays may be set as single days, or as blocks.

DATES ARE INCLUSIVE AND ALL HOLIDAY PROGRAMS MUST HAVE A START AND STOP DATE ENTERED OR THEY WILL BE INVALID. FOR A ONE DAY HOLIDAY, MAKE THE START AND STOP DAY THE SAME.

Select **'Set Hols'** from the **TIMECLOCK MENU OPTIONS SCREEN** (see Section 3.0) then press **ENTER** and the **SET HOLIDAY EDIT SCREEN** will appear.

The cursor will highlight **'Exit'**. Use the **ARROW** buttons to select the Holiday program to be edited, then press **ENTER** to move to the **SET START DATE SCREEN**.

The cursor will highlight the Month value. Use the **ARROW** buttons to select the correct Month, then press **ENTER**. Repeat this procedure for the Day value which completes setting the start date for the holiday.

The display will change to the **SET STOP DATE SCREEN**.

Repeat the steps detailed above to set the required stop date for the holiday.

The display will revert to the **SET HOLIDAY EDIT SCREEN** and the cursor will highlight the last holiday edited.

To return to the **CLOCK DISPLAY SCREEN**, simply use the arrows to navigate back up to the **'Exit'** options and press the **ENTER** button.

To enter more holidays, use the **ARROW** buttons to select another holiday entry and repeat the entire process.

To disable a holiday setting, program it's date to "----".

3.3 To Set Daylight Savings

Function: Daylight savings advances the clock's time by 1 hour whilst the current date and time are between the start and stop dates set. (e.g. Southern Hemisphere = Oct31...Mar31; Northern Hemisphere = Mar31...Oct31)

Note: The 1 hour advance happens at 1:59am (the next minute is 3:00am) and the 1 hour back happens at 2:59 (next minute is 2:00am).

Select **'Day Save'** from the **TIMECLOCK MENU OPTIONS SCREEN** (see Section 3.0) then press **ENTER** and the **START DAYLIGHT SAVINGS EDIT SCREEN** will appear.

Use the **ARROW** buttons to select the correct Month, then press **ENTER**.

Repeat this procedure for the Day value which completes setting the start date for the daylight savings.

The display will change to the **SET STOP DAYLIGHT SAVINGS SCREEN**.

Repeat the steps detailed above to set the required stop date for the daylight savings.

The display will revert to the **SET CLOCK MENU SCREEN** and the cursor will highlight **'Exit'**.

To return to the **CLOCK DISPLAY SCREEN**, simply press the **ENTER** button or the **MENU** button.

To disable daylight savings, simply select a start date of "----" or start & stop in the same month.

4.0 Installation and Commissioning

Set the Dipswitches on the back of the touch-pad according to the table below.

Set all the system settings as mentioned in Section 2.7.

If the clock module has been purchased and fitted, refer to Section 3.0 to configure the clock and automated on/off programs, holidays and daylight savings.

Operate the controller in heat, cool and try each fan speed setting.

TOUCHPAD DIPSWITCHES

	Function	OFF (Factory Set)	ON
1	Delays	Software Selectable (4minute default)	4 seconds max.
2	LockSystem Settings Menus	Allow access	Deny access
3	Setpoint Range	15-30°C (0.5°C Increments)	20-25°C (0.5°C Increments)
4	Heat Type	Reversing Valve	Elect. Duct Heat (with fan run-on) OR Cool Only