

Home Environment Control with the Control PROG for Dummies (and everyone else)

Using the Control PROG is like having 15 remote controls in one neat small switch accessible unit - you can remotely operate virtually everything electrical in your home – BUT HOW DOES IT WORK?

The Gewa PROG user Manual has over 40 pages of information describing its many and varied clever functions. However, it may not be obvious to the uninitiated PROG-o-file how this PROG power can be harnessed to make life easier. These “Application Notes” give simple step by step instructions and examples of how to set up your PROG as well as a few clever tricks our clients have found useful. For the purpose of these notes, it is assumed that the user is accessing the PROG with a single switch. To make the task of setting up your new environment control system easier we may have made some or all of the following adjustments to the PROG settings before sending it to you. If you wish to change these settings, please consult these pages and the relevant section of the Gewa ControlPROG MANUAL. (Note that most of this information also applies to the older PROG 111, however some of the pictures, labels and User Manual page numbers may not correlate)



The Basics – What do all those buttons do?

Function Keys: 0-9, !, *, #, A, B, C, D These can be Trained to work your TV's etc.

Level Key: Used to change levels

Program Button: P For programming - using a pen, match stick or similar, gently press the programming button at the same time as you press a function key. Different function keys are chosen depending on what you want to program.

E.g. To enter the Training mode:

- Press P + 1 (press Program button & key 5 at the same time)

Levels - Like having 15 remote controls in one box!

The Control PROG has a total of 15 levels or pages with 16 Trainable keys on each level plus the two special keys (!). So for example you could:

1. Train some or all of the keys on one level to work the TV & DVD in your bedroom
2. Train some or all of the keys on a second level to work the TV & DVD in your lounge
3. Train some or all of the keys on a third level to work Foxtel, etc in your lounge
4. **IMPORTANT:** We have pre-programmed and reserved certain levels for special equipment from Technical Solutions - such as the SERO Phone, TSPhone Controller, Bed Controller, Air Conditioner Interface or X10 Lighting modules. Please read page 4 of this document and if you intend to use your Control PROG with any of this equipment, be careful to note which levels are required and **do not use those levels for your TV etc.**

You can freely use one, several or all 15 levels by 'Opening' the levels you want to use and 'Closing' those you are not using. You change to another level by pressing the level (....) key, when several levels are open. Each time you press the key the next level is chosen. Levels also need to be 'Unlocked' if you wish to change the functions of the keys – e.g. learn infrared signals to control your TV. They should be 'Locked' again after you have completed the learning process to protect from accidental erasure.

1. Open/Close/Lock/Unlock a level: Press P & at the same time then choose level with the level (....) key
2. Now press 1 to Open, or 2 to Close the level – or press 3 to Lock or 4 to Unlock the level
3. Finish with a long press of the key (See page 7 - 10. of MANUAL for opening/closing/locking levels)

Scanning Method: when accessed by a single switch.

Plug your switch in to either of the switch sockets in the end of the PROG. The PROG has a wide choice in scanning options, the two most commonly used are:

- **Automatic Linear Scanning** (Simple but tedious – suits user with cognitive difficulties)
One switch press starts the scan, the user waits for the desired key the light up then a second switch press selects that key and sends the infrared signal.
- **Automatic Row & Column Scanning** (Much faster but slightly more complicated)
One switch press starts the scan, the user waits for the desired row to light up then a second switch press selects that row, now the user waits for the desired key in that row to light up then a third switch press selects that key and sends the infrared signal.

See "Setting Scanning Method" (pages 19 - 24. of MANUAL)

- Press: P + 5 , choose scanning method.
- Factory setting = Simple Linear Scanning mode – press 6.
- Automatic Row & Column Scanning mode – press 7.

Intention Delay: (Switch Acceptance Delay)

It is usually advisable to set a small intention delay (We recommend that this be to 0.1 seconds). This means that if your user switch is accidentally bumped briefly, the PROG will not start scanning. If your client has more severe erratic movements that cause unintentional switch activations, you can increase the intention delay by setting a larger number. This means that a much longer sustained switch press will be needed to activate the PROG.

See "Setting Acceptance Delay" (page 15. of MANUAL)

- Setting Acceptance Delay: P + 2 , then press key 0 to 9
- Factory setting = 0; Suggested setting = 1; (for longer delays: 2, ...9)

Scanning Speed:

Can be changed - faster or slower. You may want to start with a slow scan then speed the scan up after the user becomes proficient. (page 29. of MANUAL)

- Setting scanning speed: P + 6 , then 1 to 60, finish with --- key
(Where 1 = fastest and 60 = slowest)
- Factory setting = 15 (1.5 seconds per step)

Teaching the PROG how to work Your TV and other Appliances

Levels you have opened and unlocked (see next page) are ready for you to store infrared codes from your original remote controls – your TV, VCR, etc. You may prefer to use fewer or more levels, depending on how many devices are to be controlled.

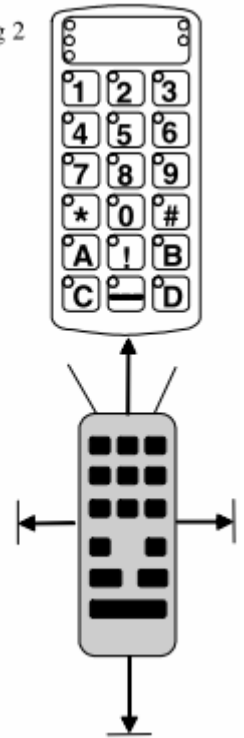
To allow the PROG to control other appliances you must:

- Decide which buttons on the remote you wish to access (eg. Power, Volume...)
- **Read IMPORTANT note on Preferred Allocation of PROG Levels, page 4**
- Decide which PROG level and key will be used for each command and
- Fill in the PROG Chart (supplied) as a record of which key does which function.

(See page 7 - 10. of MANUAL: Replicating Channels from another Transmitter)

1. Choose level which is to be programmed. Only one level at a time can be programmed.
2. Press P and 1 at the same time. The indicator light on key 1 and chosen level now flashes.
3. Press and release the key on Control PROG that is to be programmed. The indicator light for the level key now emits a steady orange light.
4. Point your original remote at the end of the PROG then press and hold the corresponding button on the original remote pressed.
5. Release the button when the indicator light for the level key gives a green light. This might take up to 10 seconds. If the indicator light goes orange again press the button one or more times until it flashes green and goes out.
 - If the indicator light flashes red the programming has failed. Try once more from step 3. If a beep is heard the level is locked and no programming can be made. Read the section how to unlock a level.
6. If the programming of the first key was successful, repeat steps 3 to 5 until all keys are programmed.
7. Finish by pressing ---. The indicator light for the level key flashes green to show that the programming is complete.
8. Now test the programmed functions on the device that is to be controlled.

Fig 2



EXAMPLE:-

PROG Level 4. - Lounge Room TV

RECOMMENDED BUTTONS:

Button 1 = Volume Down, Button 2 = Volume Up, Button 3 = Mute,
Button 4 = Channel Down, Button 5 = Channel Up, Button 6 = TV Power.

Notes: Changing volume and channels is best placed on buttons close to the top as this is what you do most often. You can also use the spare buttons (buttons 7 onward) on the same level to control your VCR or DVD. (Remember to leave the [A] and [C] buttons for the TSPhone or just the [A] button for the Sero phone)

Lets Program one button:

Program TV Power button into PROG Level 4, Key 6.

- Choose level 4 (Unlock Level 4 – see next page)
- Press P and 1 at the same time.
- Press and release the 6 key on Control PROG
- Point TV remote at PROG & Press and hold the Power button pressed
- Release the Power button when the level key gives a green light.
- Repeat steps 4 & 5 until level light flashes green and goes out.
- Finish by pressing ---. The indicator light for the level key flashes green to show that the programming is complete.
- Test by trying to turn on the TV with PROG key 6.
- Now follow steps 1 – 8 above to program the other functions
Note that you can repeat steps 3 to 5 until all keys are programmed
- Finally Lock Level 2 to protect your data

Locking and Unlocking (Data Protection)

In order to train keys on a specific Level to work your appliances, you must Unlock that Level so that the data signals can be saved. Then, after you have finished training all infrared signals into the PROG you can Lock the level – this makes the Level ‘read only’ to prevent accidental erasure of your saved data.

(See page 7 - 10. of MANUAL for opening/closing, unlocking/locking levels)

1. Lock/Unlock level: P + ---, then choose level with level key
2. Now press 3 to Lock or 4 to Unlock level
3. Finish with a long press of --- key

Preferred Allocation of PROG Levels – (These may not be relevant to all users)

Levels 1 & 2 (Red LEDs) The default codes on this level can be used for limited control of the **SERO Phone**.

NOTE that the Technical Solutions preferred setup is to use these levels for TVs etc. and use the levels show below for the Sero.

Level 3 (Red LED) The default codes on this level control the **Bed Controller and Air Conditioner Interface**.

NOTE: Buttons 1 to 8 work the bed. Please DO NOT attempt to re-program these buttons.
Buttons 9, *, 0 & # are used for our **Air Conditioner Interface**.

Levels 5, 6, 7, 8, 11 & 12 Extended Control of the SERO Phone

This is an optional setup for extensive SERO control - see:

Set up the Control PROG with Possum Codes to work the SERO Phone - Note that the [A] (Phone Answer/Hang Up button) has been, or can be, duplicated to the [A] button on all levels so that if the phone rings you can answer it and Hang Up by selecting [A] - no matter which level the PROG is on. (If you want to change this, *See page 14. of MANUAL for Copying Codes*)

Level 6 (Green LED) may be reserved for the TSPhone Controller (if not used for SERO above).

Levels 7 & 8 can also be used with the TSPhone Controller.

Note that the [A] (Phone Answer button) and [C] (Hang Up) can be duplicated to the [A] and [C] button on all levels so that if the phone rings you can answer it by selecting [A] and Hang Up by selecting [C] - no matter which level the PROG is on. (*See page 14. of MANUAL for Copying Codes*)

Level 10 (Green LED) may be programmed ready to control the X10 appliance modules.

Buttons 1 to 0 select the X10 module [1 to 10]

then [*] for ‘ON’ [#] for ‘OFF’.

Level 11 (Orange LED) Buttons 1 to 6 select the X10 module [11 to 16]

(*see Setting Up X10 modules, below*)

Hints for using your Control PROG

Changing Levels: Suppose you have been controlling the television on PROG level [1] and want to go to level [2] to control your DVD

There are two methods of changing levels:

- *Slow Method:* Press once to start scanning vertically. Press once more when the PROG reaches the last row and press a third time to execute the level key [...]. The PROG will now step through the open levels. Press a fourth time to select level [2]
- *Fast Method:* Press AND HOLD THE SWITCH PRESSED for about 4 seconds. The PROG will now step through the open levels. Press a second time to select level [2] (*See page 7. of MANUAL*)

NOTE: that some clients use a Nurse call or Radio call buzzer that may be triggered by a long switch press. If this is the case, care is needed to set the ‘delay before alarm’ timer on the call interface to a long enough delay (about 10 seconds) so a Nurse call will not be triggered by a 3 second switch press.

Other Tricks and Hints for using your ControlPROG

The Special [!] Key and Call Alarms

The [!] key has the same function no matter what level you are on so, no need to change levels, just scan straight to the [!] key. You can either scan down to the [!] key or by pressing and holding your switch pressed for about 10 seconds will directly activate the [!] key.

This feature can be used in various ways including:

1. Fit a PROG Alarm cable (below) and the user can activate a Door Opener, Call Buzzer, Pager or Nurse Call system via the [!] key
 2. SERO Phone SOS Help Auto Dial: Use the 'Copy Codes' option below to copy the code for 'Help' from PROG Level 2 Button D to the [!] key so that you can activate the phone SOS function easily without having to change levels
 3. Suppose you are watching television when the phone rings. By the time you scan to level 6 (for TSPHone control) to answer the call, your caller may well have hung up! Use the 'Copy Codes' or 'Macro' options below to quickly operate your device via the [!] key
- Note that you can not use the [!] Key for a macro if you want to use it as an alarm key



PROG Alarm Output Cable (Optional Accessory, Code: PROG-CBL-ALM3)

Plug the gold coloured plug into the spare 3.5mm switch socket in the PROG. Plug the other end of the cable into your Call Interface, Radio Link, or Pager Transmitter.

Copying Codes from one PROG button to another PROG button

Example: Suppose you have your TV controls on level 1 and your DVD on level 2. You may want to copy the codes for TV volume up and down onto level 2 so that you don't have to keep changing levels so often. See 'Copying Codes' (Manual page 12)

Create a Macro – One key press will execute multiple functions

Suppose you are watching television when the phone rings. You want to turn the TV volume down as well as answer the phone. If you are really keen you can even add the volume down codes for other TVs and your Stereo system so that they all go quiet while you are on the phone. Using the Macro feature you can use the PROG [!] key to answer the phone and turn down the television as well!!! (SEE NOTE BELOW)

- **To program a macro on the [!] key:** Step to level 6 (the phone control level)
 1. Press (P) and [A] at the same time – to start recording the macro.
 2. Then press [A] (answer phone).
 3. Now step to the level that you use to control your TV.
 4. Press and hold (for about 5seconds) the key you use to turn down the TV volume.
 5. Press (P) and [B] at the same time.
 6. Finally press the [!] key to store this sequence on the [!] key.

- To operate the macro when the phone rings, simply scan to the [!] key.

Note that you can not use the [!] Key for a macro if you want to use it as an alarm key. If this is the case, you can create a Macro on the [A] key on the level you are using for your TV.

- **To program a macro on the [A] key:** Open and step to level 8 (phone speed dial level)
 1. Press (P) and [A] at the same time – to start recording the macro.
 2. Then press [A] (answer phone).
 3. Now step to the level that you use to control your TV.
 4. Press and hold (for about 5seconds) the key you use to turn down the TV volume.
 5. Press (P) and [B] at the same time.
 6. Press the [A] key to store this sequence on the [A] key of the TV level.
- You can then copy this key to the [A] key on all other levels EXCEPT LEVEL 8 – as level 8 key [A] is part of the macro. See 'Copying Codes' (Manual page 12)
- Finally close level 8 if you are not using it. (For more on Macros, see Manual page 14)

Setting Up the Control PROG with other Technical Solutions Equipment

SERO Phone: Setting up the PROG and Sero to work together.

- The following table shows a combination of Gewa Codes and Possum Codes that allow extensive control of the Sero Phone.
Gewas Codes coloured BLUE have been copied from the Gewa level 1 defaults (NOT Level 6 defaults).
- In order for the Sero to respond to these Gewa codes, the Sero phone must be set up as described over page.
- Level 1 key [A] has (can be) copied to all other levels to speed up the answering of incoming calls. If the SOS function is to be used, level 2 button [D] can also be copied to all levels or copied to the [!] key

PROG Level 6/ Level 1	SERO Function	PROG Level 7	SERO Function	PROG Level 8	SERO Function
1	Digit 1	1	Dial Mem 1	1	Dial Mem 11
2	Digit 2	2	Dial Mem 2	2	Dial Mem 12
3	Digit 3	3	Dial Mem 3	3	Dial Mem 13
4	Digit 4	4	Dial Mem 4	4	Dial Mem 14
5	Digit 5	5	Dial Mem 5	5	Dial Mem 15
6	Digit 6	6	Dial Mem 6	6	Dial Mem 16
7	Digit 7	7	Dial Mem 7	7	Dial Mem 17
8	Digit 8	8	Dial Mem 8	8	Dial Mem 18
9	Digit 9	9	Dial Mem 9	9	Dial Mem 19
0	Digit 0	0	Dial Mem 10	0	Dial Mem 20
*	Digit *	*	Volume -	*	Volume -
#	Digit #	#	Volume +	#	Volume +
A	Dial/Hang Up	A	Dial/Hang Up	A	Dial/Hang Up
B	Toggle H'Free	B	Toggle H'Free	B	Toggle H'Free
C	Cancel	C	Cancel	C	Cancel
D	Toggle Headset	D	Toggle Headset	D	Toggle Headset

PROG Level 5	SERO Function	PROG Level 11	SERO Function	PROG Level 12	SERO Function
1	SOS Help Call	1	Phrase 11	1	Phrase 21
2	Phrase 2	2	Phrase 12	2	Phrase 22
3	Phrase 3	3	Phrase 13	3	Phrase 23
4	Phrase 4	4	Phrase 14	4	Phrase 24
5	Phrase 5	5	Phrase 15	5	Phrase 25
6	Phrase 6	6	Phrase 16	6	Phrase 26
7	Phrase 7	7	Phrase 17	7	Phrase 27
8	Phrase 8	8	Phrase 18	8	Phrase 28
9	Phrase 9	9	Phrase 19	9	Phrase 29
0	Phrase 10	0	Phrase 20	0	Phrase 30
*	Volume -	*	Volume -	*	Phrase 31
#	Volume +	#	Volume +	#	Phrase 32
A	Dial/Hang Up	A	Dial/Hang Up	A	Dial/Hang Up
B	Ans. Mach. Play	B		B	Phrase 33
C	Answer Machine ON/OFF	C		C	Phrase 49
D		D		D	

Set up the Control PROG
with Possum Codes to work the SERO Phone

The Possum codes can be loaded into the PROG by Technical Solutions or users with a PROG USB computer interface cable can download the backup data file, control tool software and instructions from the Technical Solutions web site – see:

<http://www.tecsol.com.au/downloads/TSA-ControlPROG-SERO-Levels5,6,7,8,11,12.gewacontroltool.xml>

<http://www.tecsol.com.au/downloads/GEWAcontroltool118.zip>

<http://www.tecsol.com.au/pdfs/GewaControlTool-Instructions.pdf>

Setting up the SERO Phone
to work with Gewa Control PROG Codes

Three settings that must be set in Sero: Gewa Start Ch, Gewa Stop Ch & Gewa Start Function

1. With the phone idle, press #27076# Then press the setup key (spanner symbol)
2. Use +/- to choose the “Eng. Use Only” group then press the ✓ (enter) key to select the group
3. **TSA Default Settings:**
4. Use +/- to choose **Gewa Start Channel** then press the ✓ (enter) key to edit and set
 - **Gewa Start Channel - 0** (use the – button to delete any wrong digits)
5. Use +/- to choose **Gewa End Channel** then press the ✓ (enter) key to edit and set
 - **Gewa End Channel- 27** (use keypad & – button to delete any wrong digits)
6. Use +/- to choose **Gewa Start Function** then press the ✓ (enter) key to edit and set
 - **Gewa Start Function - 32** (use keypad & – button to delete any wrong digits)
7. Finally press **Setup** to end and exit setup menu

IMPORTANT NOTES:

- With this setup, the SERO will respond to default codes on PROG Levels 1 & 2 as per the following table.
- The Sero will also respond to Primo codes
- The **Technical Solutions preferred setup** is to use levels 1 & 2 for TVs etc. and use the levels shown on the previous page for the Sero.

PROG Level1	SERO Function		PROG Level2	SERO Function
1	Digit 1		1	Speed Dial Memory 2
2	Digit 2		2	Speed Dial Memory 3
3	Digit 3		3	Speed Dial Memory 4
4	Digit 4		4	Speed Dial Memory 5
5	Digit 5		5	Speed Dial Memory 6
6	Digit 6		6	Speed Dial Memory 7
7	Digit 7		7	Speed Dial Memory 8
8	Digit 8		8	Speed Dial Memory 10
9	Digit 9		9	Speed Dial Memory 11
0	Digit 0		0	
*	Digit *		*	Volume -
#	Digit #		#	Volume +
A	Dial/Hang Up		A	Dial/Hang Up
B	Redial last No.		B	
C			C	
D	Speed Dial Memory 1		D	

Answer Phone Quickly (TSPhone and Sero Phone)

To help speed up the process of answering calls it can be useful to copy the Answer/Hang-up function to the same button/s on every level (eg. Key [A] for Sero and [A] and [C] for TSPhone. In this way the phone can be answered more quickly, without the need for changing levels.

Setting up Bed Controller

- Unplug standard hand controller from the bed and plug in the Scanning Bed Controller adaptor lead as described in the Scanning Bed Controller instructions.
- Check for operation *via the PROG*:
 - Step the PROG onto level 3.
 - Selecting [1] should make the bed head go up.
 - Selecting [2] should make the bed head go down.

Setting up X10 Appliance Modules

The X10 Appliance Modules can be used to remotely turn a light or appliance on and off.

- Check that each Appliance Module is set to “house – A” and that each Appliance Module is set to a different “Unit No.”
- Plug the Appliance Module into a power point (and leave the power point switched on)
- Plug the appliance into the Appliance Module (and leave the appliance switched on)

The X10IRRX (Mini Controller – IR7243) receives signals from your PROG and in turn sends X10 signals to your Appliance Modules.

- Choose a location for the Mini Controller where it can receive signals (line of sight) from your PROG. The Mini Controller can usually be located near the TV or stereo system as this is the most common direction that the PROG will be pointed.
- Check that the Mini Controller is set to “house – A”
- Plug the Mini Controller into a power point (and leave the power point switched on)

Check for operation *via the PROG*:

- Step the PROG onto the X10 level (level 10 & 11)
- Select [1] then [*] should turn module 1 on.
- Selecting [#] should turn module 1 off.

Selecting level 10 Keys [1] to [0] select modules 1 to 10. Key [*] = ON, Key [#] = OFF

Selecting level 11 Keys [1] to [6] select modules 11 to 16. Key [*] = ON, Key [#] = OFF

When using lamp modules, Key [B] = BRIGHT & Key [D] = DIM