



## **GardTec 800/590 Series & DD243 : 2002**

From the 1<sup>st</sup> July 2002 DD243 2002 will come into effect in England, Wales and Northern Ireland replacing the 1999 policy. All communications systems that require a Police URN will need to conform to DD243 2002.

This document is intended to help installers of the GardTec 800/590 Series control panels understand the new features that have been incorporated into the panels and use them to ensure that the system complies to the new DD243 2002 requirements. **The advanced DD243 features may only be programmed via a LCD keypad.**

This document is intended as a guide only and should be read in conjunction with the relevant standards relating to the alarm system giving particular attention to BS 4737 and DD243. These may be obtained from the British Standards Institute.

To program the confirm options on the GardTec 800 Series enter engineer mode (1234 default followed by YES) the display will show 'Program Zones' press NO until the display shows 'Program Alarm Confirm' press YES to enter into this section.

The first option will be

### **Confirm Time Window (default = 60)**

This time window may be programmed between 1 and 120 minutes. To comply the required time should be between 30 and 60 minutes.

*See 5.4.1 DD243 2002 Criteria for sequentially confirmed alarm conditions.*

### **Confirm on Entry (default = On)**

This option may be programmed to On or Off. If Confirm on Entry = Off then confirmed alarms to central station are disabled if the entry timer is started. If ACE is used then it is permissible to set this option to On.

*See 6.4.4 DD243 2002 Opening the initial entry door disables all means of conformation.*

### **Sounder Mode (default = Unconfirmed)**

This option controls the system speakers fitted, options are confirmed or un-confirmed.

If Sounder Trigger = Confirmed then internal sounder will only trigger with a confirmed alarm.

If Sounder Trigger = Unconfirmed then internal sounders will trigger with un-confirmed alarms.

*This feature is not mandatory for DD243*

### **Reset Mode (default = Any)**

Choose from Any or Normal.

If Unconfirm = Any then any code can be used to reset an un-confirmed alarm.

If Unconfirm = Normal then the programmed reset mode for alarm will still be required i.e. if alarm reset has been programmed as engineer and Unconfirm reset is Normal then an engineer reset will be required for Un-confirmed alarms.

*See A.4 DD243 2002 Resetting following an alarm condition.*

**Confirm Secondary Time Window (default = 60 minutes)**

This time window may be programmed between 1 and 120 minutes we would suggest a time between 30 and 60 minutes but should typically be the same time as the confirm time window. This option affects zones that have been allocated as secondary zones only. For functionality please refer to Secondary Zones Below.

**ET (Exit Terminator) Mode (default = Set)**

If ET Mode = Set then the exit terminator zone will terminate the exit procedure.

If ET Mode = Door Lock and the ET zone (door lock) is operated on entry then all confirmed alarms will be disabled.

*See 6.4.3 DD243 2002 Unlocking the initial entry door disables all means of conformation.*

**Bell Mode (default = Unconfirmed)**

This option controls the bells fitted to the system, options are confirmed or un-confirmed.

If Bell Trigger = Confirmed then Bell will only trigger with a confirmed alarm.

If Bell Trigger = Unconfirmed then Bell will trigger with un-confirmed alarms.

*This feature is not mandatory for DD243*

**Strobe Mode (default = Unconfirmed)**

This option controls the Strobe(s) fitted to the system, options are confirmed or un-confirmed.

If Strobe Trigger = Confirmed then Strobe will only trigger with a confirmed alarm.

If Strobe Trigger = Unconfirmed then Strobe will trigger with un-confirmed alarms.

This gives the ability to show to the keyholder from outside the premises that a previously unconfirmed alarm has is now confirmed.

*This feature is not mandatory for DD243*

**Confirmed Start Delay (default = 000m)**

May be programmed between 0 & 120 minutes (default 0).

If programmed to anything other than 0 the panel cannot send confirmed signals until the time programmed has expired. This time starts when the system has set and will prevent confirmed alarms being generated in situations when a person has been accidentally locked in the building.

*This feature is not mandatory for DD243*

**Ace Low Battery (default = On)**

Options are On or Off. This option allows for the use of new control panel boards with V5.1 or later software to be used with earlier keypads. If older non DD243 compliant type keypads are used with V5.1 or later this option should be programmed to Off. It is a requirement of DD243 2002 that when using ACE Low Battery is reported to the end user if the system is set using ACE.

*See A.1 DD243 2002 Portable ACE used for setting and unsetting.*

**Secondary Zones**

The Program Part / Test /Chime option has now been renamed to Program Zone Attributes. Within this section you are able to allocate zones as Secondary Zones. Secondary type zones would be used for detectors that may be deemed as having an over sensitive nature, this will stop unwanted user call-outs. Zones that are entered as Secondary will follow the chain of events below.

During a set period triggering a Secondary Zone will start the Secondary Time Window. This will be logged but no further action is taken. If the second zone to alarm during the same set period is also a Secondary Zone then it will be logged and the Secondary Time Window will be restarted.

If the time set within the Secondary Time Window is still running and a zone that is not allocated as a Secondary Zone is triggered the event will be logged an Alarm A (un-confirmed) and Alarm B (confirmed) will be transmitted.

*This feature is not mandatory for DD243*

**Perimeter Zones**

Within the Program Zone Attribute section you are able to allocate zones as Perimeter. Zones that are entered as Perimeter will follow the chain of events below.

When activated an unconfirmed alarm will be transmitted to the central station. An output or digi channel may be programmed as perimeter (or if using Point ID a new signal type of perimeter will be sent). This will allow central station to inform the keyholder that an unconfirmed alarm has been received and is a perimeter type device i.e window backdoor etc. etc.

*This feature is not mandatory for DD243.*

**Scenarios Relating to DD234 2002.**

**Sounder / Bell Considerations**

Please note careful consideration should be given when programming Confirm Sounder and Confirm Bell Modes. If both are programmed for confirmed and any of the above scenarios occur no local sounders will activate.

**Other DD243 2002 Notes to Consider**

When a system auto re-arms with a zone in fault condition The GardTec control panel will omit the zone concerned. A signal should be sent to the central station indicating that a detector(s) has (have) been isolated. To achieve this a Digi channel should be programmed as part-set, this automatically send the required signal as the detector is omitted.

*See A.3.1 DD243 2002 IAS Incorporating Sequential Conformation Technology Only*

**New Output Option (Status)**

A new output option of Status has been added, this option has three operating modes and is intended to provide a visual indication of the system status.

System Set	Output On for 10 seconds
System Unset	Output On for 1s Output Off for 1s for a 10 second period
Confirmed Alarm	Output On for 3 seconds Output Off for 1s until system reset.

It is envisaged that this status output would be fitted to an indicator (i.e LED) that can be seen from outside the premises.

**a) Scenario specific to systems using completion of unsetting with ACE 6.4.5 DD243 2002.**

Event 1	System Set	
Event 2	Entry Time Starts	
Event 3	Access Zone Triggered	
Event 4	Entry Expired (including Entry Time 2)	<b>Unconfirmed Transmitted</b>
Event 5	non entry/access Zone Triggered	
Event 6	Second non entry.access Zone Triggered	<b>Confirmed Transmitted</b>

To achieve the above  
Confirm on entry = On  
Ace Low Battery = On

**b) Scenario Unlocking the initial entry door disables all means of conformation 6.4.3 DD243 2002.**

Event 1	System Set	
Event 2	Entry Door Unlocked	<b>Confirmed Alarms Disabled</b>
Event 3	Open Entry Door (entry time starts)	
Event 4	Entry Time Expires (inc Entry Time 2)	<b>Unconfirmed Alarm Transmitted</b>
Event 5	Any subsequent zones triggered	<b>No Confirmed Signals Transmitted</b>

Or

Event 1	System Set	
Event 2	Entry Door Forced Open (entry time starts)	
Event 3	Entry Time Expires (inc Entry Time 2)	<b>Unconfirmed Alarm Transmitted</b>
Event 4	non entry/access Zone Triggered	
Event 5	Second non entry.access Zone Triggered	<b>Confirmed Transmitted</b>

To achieve the above  
 Confirm on entry = On  
 ET Mode = Door Lock  
 Door Lock Zone programmed as ET

c) **Scenario Opening the initial entry door disables all means of conformation 6.4.4 DD243 2002.**

Event 1	System Set	
Event 2	Entry Door Opened (entry time starts)	<b>Confirmed Alarms Disabled</b>
Event 3	Entry Time Expires (inc Entry Time 2)	<b>Unconfirmed Alarm Transmitted</b>
Event 4	Any subsequent zones triggered	<b>No Confirmed Signals Transmitted</b>

To achieve the above  
 Confirmed on entry = Off