INSTALLATION

Connection of the control panel in the following sequence allows the engineer to establish that the control panel is in working condition.

Connection Sequence

Step 1 With the panel tamper switch closed connect the mains supply. **Result** Mains lamp lights. System arms.

Step 2 Enter master program 0 1 1 2 2 security code **Result** System switches off. The set lamp on the display goes out.

Step 3 Enter 0 1 1 2 2 to arm the system **Result** The set lamp lights on the display. This shows that all the alarm loops are closed and the panel is setting up properly.

Step 4 Enter 0 1 1 2 2 **Result** Set lamp goes out. The system is now disarmed and the display remains blank.

This procedure verifies that the panel is working correctly.

Step 5 The engineer can now wire up the alarm zone detectors, Aritech Inertia Sensors and warning devices.

NOTE: The PA zone does not activate the digi alarm output. For silent PA facility, connect PA circuit directly to the digital communicator.

NOTE: If total power is withdrawn from the panel, the unit reverts to the master program settings.

MASTER PROGRAM SETTINGS

The control panel leaves the factory with the following settings:

Entry Time	20 seconds
Exit Time	30 seconds
External bell cut-out	15 minutes
Operator Security Code	0 1 1 2 2

Alarm zone 1 programmed for ACCESS

Alarm zone 1 automatically inhibited when part guard 0 # 7 is used.

Alarm zone 2 and 3 gross attack level	5
Alarm zone 2 and 3 pulse count	4
Exit and entry zone gross attack level	7

DISPLAY CONDITIONS

A single seven-segment display is used to communicate information from the panel. The dot on the right hand side of the display indicates the status of the system

When this dot is on, the system is set. 

When the dot is out, the system is off. 

1 = Alarm zone one.
2 = Alarm zone two.
3 = Alarm zone three.
E = Entry and Exit.
A = Personal Attack Alarm.
P = System Set on Part Guard.
H = Shows when an alarm zone is inhibited.
t = Tamper Alarm.
– = Panel is in the Engineer Mode.
_I = Exit Fault

PROGRAMMING THE CP 3212 and CP 3312

Enter Engineer Mode

If the engineer wishes to change any of the above settings, he must enter the engineer mode. Unscrew the cover of the main control panel or RKP and hold it closed.

Step 1 Ensure that all alarm zones are closed and arm the system. **0 # 5** **Result** The set lamp will light.

Step 2 Switch the system off by entering the operator security code **0 1 1 2 2** **Result** The set lamp will go out.

Step 3 Within 10 seconds open the tamper switch. **Result** The centre bar on the display will light to indicate that the panel is in the Engineer Mode

PROGRAMMING IN THE ENGINEER MODE

Ensure that the tamper switch of the panel is open.

	Function	Enter			P.
1.	Entry time	**4.0**	**SS**	(number in seconds 1-99)	★
2.	Exit time	**4.1**	**SS**	(number in secs between 1-99)	★
3.	Bell cut off	**4.2**	**MM**	(number in mins between 1-99)	★
4.	Zone Two Gross Attack	**80 N**		(Level number 1 – 9)	★
	Zone Two Pulse count	**81 N**		(Level number 2 – 9)	★
	Zone Three Pulse Count	**82 N** **83 N**		(Level number 2 – 9)	★
	Exit Entry Zone Gross Attack	**84 N**		(Level number 1 – 9)	★

If no pulse count is required enter **0**.

If no inertia sensors are used on zones 2, 3 or Exit/Entry then enter:

80 0 ★
82 0 ★
84 0 ★

TO RETURN TO MASTER PROGRAM SETTINGS

Step 1 Enter the engineer mode. **Result** Centre bar on display will light.

Step 2 Disconnect battery.

Step 3 Disconnect mains supply. **Result** Mains indicator lamp goes out.

Step 4 Reconnect mains supply. **Result** Mains indicator lamp comes on, system arms.

Step 5 Enter master operator code **0 1 1 2 2** **Result** System switches off.

Step 6 Reconnect battery

Step 7 Close lid of panel. **Result** Tamper switch will close.

The panel has now reverted to master program settings.

PROBLEM SOLVING

If a bar appears at the bottom of the display, an invalid command has been given. Ensure that the panel is in the engineer mode and that the tamper switch of the lid of the panel is open.

To leave the Engineer Mode close the panel lid and press 0 ★

Engineer Memory

An alarm memory is provided which will store the last **sixteen** alarm activations. To read this memory, enter the engineer mode as follows:

Step 1 Arm system **Result** Set lamp on display lights.

Step 2 Disarm system using Operator Code **Result** Set lamp will go out.

Step 3 Open control panel within 10 seconds **Result** Centre bar on display lights. Panel is in the Engineer Mode.

Step 4 Enter **6 3 ★** **Result** Display now shows the cause of the last alarm activation.

Step 5 To read previous alarm events press # **Result** Previous alarm activations will be displayed.

NOTE: There are 16 events in this memory. When the most recent event is on the display the set lamp also lights.

To leave the Engineer Mode, refit the lid of the alarm panel and Press **0 ★**

ALARM ACTIVATION DISPLAY CONDITION

After an alarm activation the zones that tripped will be displayed in sequence, the set lamp will light when the first zone that tripped is on the display.

To clear the display, press 0.

NOTE: This information will be lost from the display if the alarm system is reset. However, the first zone that activated will be retained in the engineer memory.

WALK TEST

With the panel in the engineer mode, enter **7 0 ★**. The system is now in walk test. Opening any closed zone will now cause the internal bell output to activate for one second. Closing an open zone produces the same result.

To leave the Engineer Mode, close the panel lid and press **0 ★**

NOTE: To walk test the tamper zone, the control panel tamper switch must be closed.

BELL TEST

The operator can test the warning devices when the system is in the OFF condition.

Step 1 Press **0 # 9** **Result** The internal bell, external bell buzzer will sound for ten seconds.

Step 2 To cancel bells, Press **0**

ACCESS ZONE

The panel comes from the factory with ALARM ZONE ONE pre-programmed for access. This means that during the Entry and Exit time the operator can pass through this zone without activating the alarm. However, with the system set if zone one trips an immediate alarm is given.

If access is not required on zone 1, the engineer should cut the "Access Link" R4 on the PCB. See Wiring Diagram overleaf.

OPERATOR COMMANDS

Function	Enter	Result
Alarm on / off	0 Code	Exit buzzer sounds. Leave building.
Alarm on	0 # 4	Exit buzzer sounds. Leave building.
Quick set (no buzzer)	0 # 5	Set lamp lights. System ON.
Quick set (part guard)	0 # 7	Set lamp lights. Zone 1 inhibited. System ON
Inhibit	0 Code ★ Zone No.	Set lamp lights. H appears on the display.
Bell test	0 # 9	Warning devices sound.

CODE SECURITY

The user can change his security code at any time by proceeding as follows when the system is "off".

1. Enter current operator code
2. Enter ★
3. Enter #
4. Enter new code number (do not use a "0" in the code)
5. Enter ★

The system will now operate from the new code and the old number is automatically cancelled.

SPECIFICATION

Signalling Output	13.8 volt DC ± 5%
	Normal / Surge
	Internal bell 500 mA 1 Amp
	External bell 500 mA 1 Amp
Loop Characteristics	5 alarm loops 1 tamper loop, 24-hour double pole protection. Maximum loop resistance 2000 Ohms.
Loop Response Time	300 MS
Power Input	220 – 240 50HZ + 10% 12 V nominal 1 to 6 amp – hour rechargeable battery (not supplied)
Auxiliary Power Output	13.8 volts DC ± 5% 500 mA maximum
Rechargeable Battery	Float charging method. 13.8 volts DC ± 5% 1 amp maximum. (6 amp/hour recommended)
Tampers on Panel	Tamper-switch, mounted on PCB
Quiescent Standby Current	Only 80 mA