

INSTALLATION INSTRUCTIONS



AG8

EXTERNAL SOUNDER & STROBE



WARNINGS

STROBE CIRCUITS CARRY HIGH VOLTAGES (350 volts.) **ALWAYS** make sure the unit has been disconnected from all external power for **at least 5 minutes** before removing **ANY** safety cover.

WEAR hearing protection when close to a sounder.

ALWAYS observe safety precautions with regard to ladder use.
Plastic bags can suffocate - always dispose of carefully.

NEVER put screwdrivers or other sharp objects in pockets - **ALWAYS** use a tool belt.

STANDARDS

This unit has been tested to the required standards for emission and immunity as set out by the EEC (ECD 89/336/EEC). This unit complies with EN50131-1 which relates to security control equipment.

PRODUCT DESCRIPTION

The AG8 is a microprocessor controlled external sounder with a built in strobe. It was designed for simple installation, and offers a wide variety of features and safeguards. Features include silent installation, an option for a secondary strobe and two flash settings, optional sounder settings (multi-sweep or two tone), selectable timer, simple testing, and diagnostic LED's that can be viewed after the covers are fitted.

QUICK TEST

To test the sounder before installation, ensure the 'TEST' link is fitted, then short together the 'BATT' link using a screwdriver. The sounder will then operate for a period of 10 seconds minimum, and one LED will illuminate. The tone produced will depend on the setting of the 'tone' link.

NOTE – Sounder Ticks, LED indicators and 'Missing Sound Cycles' are explained in 'Problem Solving'

STANDARD PARTS LIST

1 x AG8 sounder.

1 x Accessory bag containing: - 4 x No 8 Wallplugs, 4 x 2" No 8 screws, Lid screw, screw cap.

This instruction manual.

INSTALLATION OVERVIEW

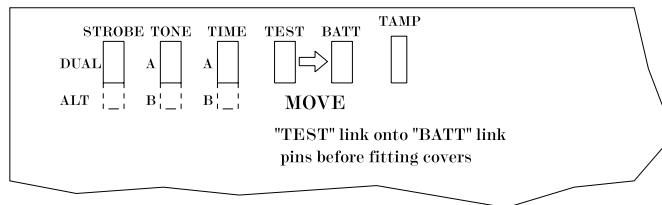
To obtain maximum distribution of sound output, and reduce the risk of tampering attempts, install the AG8 at first floor height.

INSTALLATION OVERVIEW (Cont.)

Here is a brief description of a typical setup and installation procedure for the AG8.

- 1) Open the sounder by removing the cover fixing screw, and pulling the cover away from the lens at this fixing point. (NOTE: The plastic may have to be bent slightly to release the holding tabs.)
- 2) Release the lens from the back chassis, starting at the screw fixing point and bending the lens slightly to release the locating tabs. The terminal screws and selection jumpers are now accessible.
- 3) Select AG8 options by fitting links as required.
- 4) Move the tamper switch if required and then mount the unit to the desired surface.
- 5) Connect the AG8 to the control panel.
- 6) Remove TEST link if fitted and connect BATT link.
- 7) Replace covers and tighten the tamper screw.
- 8) Power up the control panel.

OPTION LINKS



STROBE LINK NAME "STROBE".

The strobe link controls the flash method for both the primary and optional secondary strobe module. By default, the link is set to DUAL. This is the setting you would use if you have two strobes installed and wish to make them both flash at the same time. It is also the setting you would use if you only have the primary strobe installed.

If you have a secondary strobe module installed and would like to make the two strobes flash alternately, move the link to ALT (Alternate).

Default	DUAL	(Link on).
	ALT	(Link off).

SOUNDER LINK NAME "TONE".

The AG8 incorporates 2 different sounds. By default, with the TONE link on, the sounder will give a "Multi-Sweep" sound when activated. By removing the TONE link, the sounder will give a "Two Tone" sound when activated.

Default	Multi-Sweep	(Link on).
	Two-Tone	(Link off).

In the event that the sounder is operating from the backup battery (i.e., the hold off supply is not connected), then the sounder will miss one sweep in every seven as an indication of the problem.

OPTION LINKS (Cont.)

TIMER LINK NAME "TIME".

The AG8 incorporates a cut-off timer for the sounder only, this is selectable for 3 minutes and 15 minutes. By default, with the TIME link "on", the timer is set to 15 minutes. By removing the link you change the cut off time to 3 minutes.

Default 15 Mins (Link on).
 3 Mins (Link off).

The timer link will accept the new time settings upon any activation of the sounder.

MOVING THE TAMPER SWITCH

If you are fitting the unit horizontally, you can rotate the AG8 so that the strobe is either to the left or right. However, this would mean in certain cases the tamper screw would be awkward or in the wrong position to tighten. To remove this potential problem, the tamper switch can simply be unclipped from its mounting pins and moved to the opposite side of the base. Make sure the tamper switch is secure before mounting the base.

CONNECTIONS

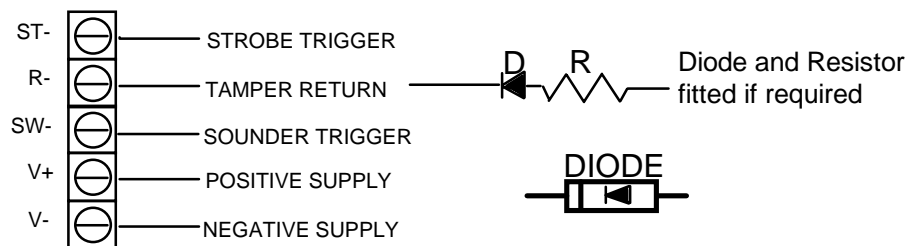
AG 8	TR- Negative Tamper Return	V- Negative Supply	ST- Negative Strobe Trigger	V+ Positive Supply	S- Negative Sounder Trigger
SECURIT 800 Series	R-	V-	ST-	V+	S-
SECURIT 703	R-	0V (NOTE 1)	ST-	BELL+	NO
SECURIT 700L	R-	BELL-	ST-	BELL+	S-
BRAVO 700	R-	BELL-	ST-	BELL+	S-
ACTIVE 5X	21 (NOTE 2)	20 (NOTE 3)	ST-	BELL+	S-
ACTIVE 4	13 (NOTE 2)	12 (NOTE 3)	ST-	BELL+	S-
724 / 764	TAMP RET	V-	INT BELL-	AUX+	EXT BELL-
ARITECH CS350	17	16	7	4	5
VERIFIER 6	TAMP RET	-VE HOLD	- INT BELL	+ EXT BELL	- EXT BELL
ADE	TRO	SCB-	STR	BELL+	BELL-
MENVIER	BELL TAMP	0V	STB	BELL 12V	BELL TRIG
OPTIMA XL4	A	T	STROBE-	D	B
TEXECOM	C	D	S	A	B
SCANTRONIC	TR	0V	STR NO-	12V+	BELL NO-
PARAGON PLUS	BT	B-	STB-	B+	BA
CHALLENGER 5	C	A	ST-	D	B

CONNECTIONS (Cont.)

NOTES FOR TERMINAL CONNECTIONS.

- 1) Link the terminal marked COM to 0V terminal at the panel.
- 2) This should be wired in series with all other tampers and then connected to the pin shown.
- 3) This connection should be the start of the tamper loop and is also used as HOLD OFF negative.

When connecting the bell box to an Irish control panel for example the Europlex or Aritech, a diode must be installed as shown below. For panels without a strobe output, Link the ST- to the SW- .



BEFORE REPLACING THE COVERS.

Before replacing the covers, check that the TEST link is removed and that the BATT link is fitted.

ADDING A SECONDARY STROBE MODULE.

When adding a secondary strobe module please adhere to the **warnings** on page 2.

- 1) Remove safety covers.
- 2) Remove hold off or positive supply.
- 3) Fit the secondary strobe module to base plate.
- 4) Plug in the secondary strobe module cable to connector HD1, located on the main PCB (NOTE: - the connector will only fit one way).
- 5) Replace all safety covers.
- 6) Choose strobe flash method – see page 3.

POWERING UP

Apply the control panel power.

If everything is OK, after approximately 10 seconds, the two LED's will be flashing alternately. This is normal operation and the LED's will continue to flash indefinitely.

NOTE: The AG8 is designed to power up silently and only when both the LEDs are flashing will the AG8 accept an alarm condition.

If this is not the case follow the next section.

PROBLEM SOLVING

Locate an installation fault using the following guidelines.

Sounder Effect	Possible Explanation	Solution
There is no sound produced when performing a Quick Test, and Quick Test link shorted, prior to normal installation.	AG8 Battery is flat or BATT link is not shorted.	Supply the AG8 from a 12 volt supply. The AG8 will recover when power is applied from the control panel. Short out the BATT link.
Sounder 'ticks' although no strobe flashes.	Panel is calling for strobe operation but all the strobes are faulty.	WARNING: STROBES ARE LIVE FOLLOW SAFETY PRECAUTIONS Down power the AG8 and replace.
Sounder 'ticks' with only one strobe fitted.	Strobe link set on 'Alternate'.	Fit strobe link on 'Dual'.
With two strobes fitted, the sounder 'ticks' and only one strobe flashes.	The secondary strobe module is faulty or lead not connected. The primary strobe is faulty.	WARNING: STROBES ARE LIVE FOLLOW SAFETY PRECAUTIONS Down power the AG8 and replace the secondary strobe module, connect lead. Down power and replace the AG8.
The alarm sound has 'gaps'.	The alarm is being triggered via the backup battery only.	Check that a 12 volt supply is reaching the AG8.
The sound type is incorrect.	TONE link is set wrongly.	Change TONE link.
No LED's on or dimly lit.	Backup battery flat and/or 12 volt supply low.	Check that there is a constant 12 volt supply.
LED 1 on only after installation.	No 12 volt supply.	Check that there is a constant 12 volt supply.
LED 2 on only after installation.	The alarm is being triggered Or Tamper switch open.	Normal if in alarm condition, close onboard tamper switch.

If for any reason you have to contact technical helpline please have the following information at hand.

What LEDs were on:-

How many strobes are connected:-

What control panel are you connecting to, and what are the sounder connections.

Please have writing materials available for taking notes.

TECHNICAL INFORMATION

HOLD OFF SUPPLY	13.65Vdc nominal 12.0 to 14.5Vdc.
LOAD CURRENT	30mA nom. Quiescent. 400mA nom. Combined sounder and strobe. 170mA nom. Strobe only.
SOUND OUTPUT LEVEL	116dB @ 1m nominal (Supply & Mounting Dependant)
BATTERY	6.0v, 280mAh Nicad. Automatic charging from hold off supply. Design life = 5 years at 20°C nom. Minimum of 3 15 minute alarms from fully charged battery without recharge.
TEMPERATURE RANGE	-20°C to +40°C. Operating & Storage
TRIGGER CONDITIONS	Automatic reset occurs when trigger clears
HOLD OFF	Loss of hold off supply, operates below 10V typical
S-	Negative Trigger (-V applied) Trigger occurs when terminal voltage is less than 3.5v. Maximum load 1.0mA
TAMPER DETECTION TAMPER OUT	Wall & Cover retaining screw Normally closed negative tamper return
LED 1 & 2	Twin alternating RED: Also used for diagnostics.
CUT OFF TIMER	Link selectable 3 & 15 minutes nom. (Sounder Only).
STROBE TRIGGER STROBE	-V applied 0.6 Joules per flash. 1 flash per second nom. @ 13.65Vdc.
SELECTABLE BETWEEN	Alternate 1 flash per second nom. @ 13.65Vdc. Dual 1 flash per 2 seconds nom @ 13.65Vdc 2 strobes Dual 1 flash per second nom @ 13.65Vdc 1 strobe
DIMENSIONS	H 55 mm W 200mm D 300mm
WEIGHT	Gross 840 grams
OPTIONS	Second strobe module C & K part No A-000-912-00

This product is manufactured to ISO 9001 quality assurance and complies with all relevant standards as set out for EMC. This product is also Year 2000 compliant.



Certificate No CC106

Please Note:

C&K SYSTEMS always endeavours to improve quality and performance of its products and may alter or amend this product and instructions without notice. All information is given in good faith but without warranty.

C & K Systems

REDDITCH.
WORCESTERSHIRE
ENGLAND

Tel: +44 (0)1527 68111

Fax: +44 (0)1527 68222

Technical Helpline: 0345 660533 UK Only.

Website: <http://users.powernet.co.uk/cksys>

E-mail: info@cksys.co.uk

