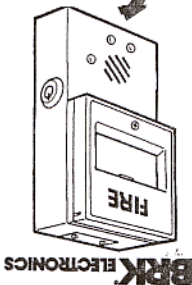


THE BRK CALL POINT ALARM SYSTEM
 The BRK Call Point Alarm system is a modular system giving total flexibility at an affordable price. The system provides continual automatic fire protection for buildings up to a recommended 1000m² of floor area. The system can be extended up to a total of twenty-four interconnected units (smoke, heat or auxiliary call point alarms) giving a versatile BSS839 Pt 6 Grade C system.

FLEXIPOINT
 THE PROTECTION SYSTEM FOR SMALL PREMISES



BRK ELECTRONICS

IMPORTANT
 PLEASE READ CAREFULLY AND SAVE
 This manual contains important information about the operation of this call point alarm. Purchasers who install this alarm for use by others must leave this manual or a copy of it with the user.
 READ ENTIRE MANUAL PRIOR TO INSTALLATION.

10 YEAR GUARANTEE

BRK guarantees it's enclosed alarm to be free from defects in materials and workmanship for a period of 10 years from the date of purchase. BRK makes no other express guarantee for this alarm.

No agent, representative, dealer or employee of the Company has the authority to increase or alter the obligations or limitations under the guarantee. The Company's obligation under this guarantee shall be limited to the repair or replacement of any part of the alarm under normal use and service during the ten year period commencing with the date of purchase.

It is an express condition of this guarantee that it is the user's responsibility to use, maintain and service the goods only in accordance with the provisions of this manual and, in addition, to take such care of the product as in all the circumstances is considered reasonable and prudent. If you need advice on any of the foregoing, call BRK Customer Services on 01275 845024.

Units in need of repair should be returned to:

BRK, Gordano Gate, Portishead, Bristol BS20 7GG Tel: 01275 845024

The Company shall not be obligated to repair or replace units which are found to be in need of repair because of damage, unreasonable use, incorrect installation, modifications, or alterations occurring after the date of purchase or failure to comply with the regular maintenance provisions.

Contamination of the alarms is outside of our control and is not viewed as normal wear and tear - it is therefore not covered by the guarantee. If you are buying as a consumer, this does not affect your statutory rights under UK law.

Except where the goods are sold or supplied as part of a private transaction, the duration of any implied warranty, including that of satisfactory quality or fitness for any particular purpose, shall be limited to the applicable period commencing with the date of purchase. In no case shall the Company be liable for any consequential or incidental damages for breach of this or any other guarantee, or any other duty imposed by law, expressed or implied, even if the loss or damage is caused by the Company's negligence, except where any such negligence result in death or personal injury.

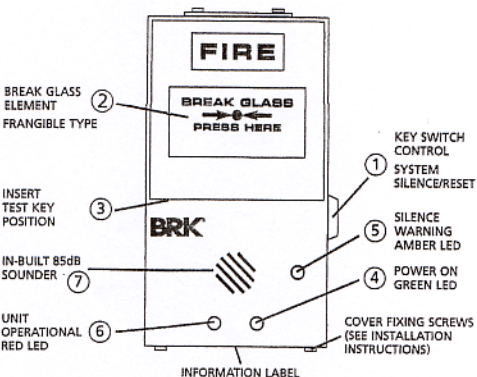
SENSING DANGER
BRK
SAVING LIVES

BRK
 Gordano Gate,
 Portishead,
 Bristol BS20 7GG
 Tel: 01275 845024

MASTER CALL POINT ALARM

FEATURES

- Simple Break Glass operation with test key facility.
- Latching alarm system.
- Key operated silence/reset switch.
- Power (mains) ON Green LED.
- Unit Operational Red Flashing LED.
- Silence Mode Flashing Amber LED.
- Silence mode timing system (approximately 12 minutes with automatic reset).
- Inbuilt Piezo 85dB alarm sounder.
- Audible "mains fail" warning.
- Audible "Lithium cell condition" warning.
- Sealed-in 10 year Lithium cell backup.
- 10 Year Guarantee.



STANDARDS APPLICABLE TO CALL POINT ALARM UNIT:

B55839 Part 2:1983 Fire Detection and Alarm Systems for Buildings - Specification Manual Call Points.

BSEN 60065 1994 Safety Regulations for Mains Operated and Related Apparatus for Household and Similar General Use. This is the requirement to meet European Low Voltage Directive.

B53955 1986 (relevant sections) Specification for Electrical Controls for Household and Similar General Purposes.

Complies with EN50081 -1:1992 EN50082-1 EMC Directive
 BSEN 690730-1:1992, 60730-2-1:1992 Control

CE Approved.

MASTER CALL POINT ALARM MODEL NO. 8230KS TECHNICAL SPECIFICATION

CONTROLS (EXTERNAL)

Refer to diagram.

Keyswitch ① Sprung loaded, easy to use for Silencing/resetting alarming units except triggering unit. (Auto reset after 12 minutes).

Break Glass ② Frangible type element.

Alarm testing ③ is via test key in Call Point Fascia.

POWER SUPPLY

Input Voltage/current: 230Vac 50Hz 25mA

Lithium Cell Back Up: PP3 Primary Lithium Manganese Dioxide

Lithium Cell monitoring for open/circuit/low voltage 7.2 volts typical.

Mains supply monitored for failure.

INDICATIONS (EXTERNAL) - HIGH EFFICIENCY LED

- ④ Power ON (Mains) - Green.
- ⑤ Silence/Reset Active - Flashing Amber.
- ⑥ Unit Operational - Red flashing once every 40 secs. Unit Alarm - Red rapid flashing. Piezo Sounder - (85dB @ 3m).
- ⑦ Single chirp every 40 secs low Lithium cell/ mains failure/silence feature activated.

Unit Dimensions (mm) 160 x 90 x 56

PURPOSE/OPERATION DESIGN

Upon breaking the frangible element, the call point's alarm sounds (and also any connected powered BRK.smoke, heat or call point alarms).

Any connected BRK smoke, heat or auxiliary call point entering alarm state will trigger the Master Call Point alarm.

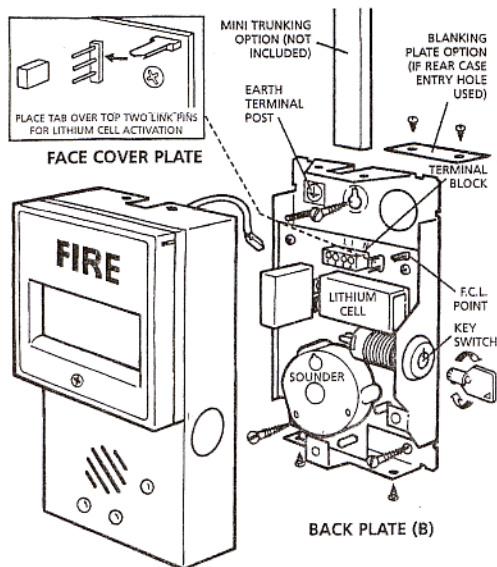
The system will stay in alarm (latch) until the Master Keyswitch is operated. This resets the system/places the system into 'silence mode' automatically resetting after approximately 12 minutes. Any triggering alarm unit remains sounding for easy location/action.

AUXILIARY CALL POINT ALARM

Model No. 8230AU

This is fitted with a separate Silence Button for unit silence facility, and specifications are as Master Call Point Alarm except for Keyswitch and System Silence/Reset feature.

INSTALLATION



INSTALLATION INSTRUCTIONS

1. Before commencing installation ensure the Master Call Point Alarm is suitable for the purpose intended.
2. As these units utilise BS 5839 Pt 2 Call Points, the requirement to meet BS 5839 Pt 1 should be met, which includes correct siting of these products at all ground floor exits or main landings or stairwells.
3. Place the back plate (B) in the intended location, normally at a height of 1.4m from floor level, taking care on siting with respect to power, gas, water supplies. Using a suitable tool mark the position of the three fixing holes. (The back plate has three pre-drilled holes for this purpose).
4. The back plate has a 20mm hole for rear cable entry if necessary. Surface cabling can be used using suitable mini trunking via an access port at the top. In this case the blank cover plate can be discarded.
5. Drill the fixing holes and mount the back plate.
6. Take adequate precautions for personal safety and that of others. Ensure the electricity supply is disconnected or turned off. Connect the intended suitable mains supply input (see diagram) to the terminal block. The terminals are marked 'L', 'N' and 'I' on the circuit board ('L' is for live, 'N' is for neutral, 'I' is for interconnect, and 'E' is for earth post connection). This appliance must be earthed.
7. Move Lithium cell activation tab up to link pins (see inset diagram). Check the wiring for accuracy and amend any errors.
8. Connect the flying connector lead from the face plate cover to point indicated (F.C.L. Point).
9. Fix the face plate cover over the back plate cover and secure using the base screw provided. Include the blank cover plate if rear entry cabling is used.
10. Power the system. Test the unit using the Break Glass Test Key, all powered interconnected alarm units should enter alarm.

WARNING!

The alarm should be installed by a qualified electrician in accordance with current IEE regulations for electrical installation or a qualified fire engineer.

WARNING!

This unit must be powered by a 24-hour, 230Vac, 50Hz circuit. Ensure the circuit cannot be turned off by a light or dimmer switch. (It is recommended by BRK that alarms are wired on a dedicated circuit, to the consumer unit/distribution board).

WARNING!

Installed units must NEVER be subject to a mega-testing (high voltage) procedure.

CAUTION!

Connect this unit ONLY to other compatible units. See "How to Interconnect Multiple Alarms" for details. Do not connect it to any other type of alarm or auxiliary device. Connecting anything else to this unit may damage it or prevent it from operating properly. For further advice contact the supplier.

CAUTION!

Do not stand too close to the unit when the alarm is sounding: It is loud to alert you in an emergency. Exposure to the sounder at close range may harm your hearing. When testing the unit, step back when the alarm starts sounding.

CAUTION!

Do not paint over the unit. Paint could prevent the unit from working properly.

WARNING!

This unit complies with systems to BS 5839 Pt 6 Grade C, not BS 5839 Pt 1 Systems which utilise Pt 4 Control Equipment.

HOW TO INTERCONNECT MULTIPLE ALARMS

Interconnected units will provide earlier warning of fire than stand-alone units. If any alarm in the series enters alarm, all units will alarm, until the Keyswitch is operated.

IMPORTANT

This alarm can be interconnected with 86RACHE10, 2002RACHE10, HD6135FE, 6230B10FP.

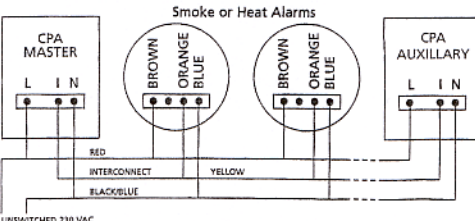
Interconnected units must ALL of the following requirements:

- A maximum of 24 units total may be interconnected.
- The same fuse or circuit breaker must protect all interconnected units.
- The total length of cable interconnecting the units should be less than 457 metres (1500 feet). The interconnect cable should be 1.5 mm² or larger, rated at least 300V.
- All wiring must conform to BS 7671 regulations.

WARNING!

Failure to meet any of the above requirements could damage the units and cause them to malfunction, removing protection.

INTERCONNECTING MULTIPLE ALARMS



Earth/CPC not shown for clarity. CPA master and auxiliary units must be earthed. Recommended cable: 1.5mm² three core and earth 6243Y BASEC Approved/BS5604.

TESTING ALARMS

BRK advise that the Call Point is tested monthly by inserting the supplied plastic test key into the test slot under the break glass face. Any connected smoke, heat or auxiliary call points should also be tested. Test using the test buttons or, in the case of Call Points, the plastic test key.

Any failure of part or all of the system must be rectified as soon as possible.

REGULAR MAINTENANCE

This unit has been designed to be as maintenance-free as possible, but there are a few simple things which must be done to keep it working properly:

- Test it at least once a month.
- Gently clean off any dust on the unit at least once a year using a damp cloth, dry with a lint free cloth.
- Never use cleaners or solvents since they may damage the unit. Test the unit after cleaning.
- When the lithium cell becomes weak, the unit will "chirp" about once a minute (the low battery warning). This low battery warning should last for 30 days, but you should replace the alarm immediately via a qualified electrician, or alternatively a qualified fire engineer to continue your protection.
- Note: When the unit is in alarm mode, the key can be used to place the entire system into reset with a 12 minute delay. During this time any units in operation can be found and dealt with. The key can be used to reset the delay when cause of alarm is sorted.

ACCESSORIES

PRODUCT CODES

Spares Kit:	8230KIT (2 keys + 4 FE's)
Master CPA:	8230KS
Auxiliary CPA:	8230AU
Replacement Key:	8230KEY
Frangible Element (F.E.):	8230BG
Test Key:	8230KEYP

SMOKE ALARMS

2002RACHE10: An optical alarm, with silencer button and sealed-in lithium cell. (Guaranteed for 10 years).

86RACHE10: An Ionisation alarm, with silencer button and sealed-in lithium cell. (Guaranteed for 10 years).

HEAT ALARMS

6230B10FP: A fixed point heat alarm with sealed in lithium cell. (Guaranteed for 10 years).

HD6135FE: A fixed point heat alarm that alarms between 54°/62°C.

SURFACE PATTTRESS

SMK839: For surface mounted cabling.

SMK623: As above for 6230B10FP.

SMK839RCB: For remote signalling purposes.

SMK623RCB: As above for 6230B10FP.