

Remote Volume Controls and Program Selectors

Type Nos. VC01, PS01, VCPS02

## Product Description



The VC01, PS01 and VCPS02 range of products provide convenient control of local volume and program selection from attractive wall plate mounted rotary selectors. Up to 12 controls may be connected (via a simple 2 wire interface per control) to a BMB01 unit mounted either locally or at the equipment rack.

All controls may be configured to affect the required system inputs and outputs from the VAR router user interface.

Refer to the appropriate BMB01 and VAR Router installation guides and handbooks for further information.

| Type No. | Description   |
|----------|---|
| VC01-P   | Single gang plastic panel mounted volume control                      |
| VC01-M   | Single gang metal panel mounted volume control                        |
| PS01-P   | Single gang plastic panel mounted program selector                    |
| PS01-M   | Single gang metal panel mounted program selector                      |
| VCPS02-P | Double gang plastic panel mounted volume control and program selector |
| VCPS02-M | Double gang metal panel mounted volume control and program selector   |

## CE Declaration



This equipment is designed and manufactured to conform to the following EC standards:

EMC EN 55103-1, Environment E1, EN 55103-2 E5

Safety EN 60065

Failure to use the equipment in the manner described in the product literature will invalidate the conformity. A 'Declaration of Conformity' statement to the above standards and a list of auxiliary equipment used for compliance verification is available on request.

## Safety and Precautions

### ENVIRONMENTAL PRECAUTIONS

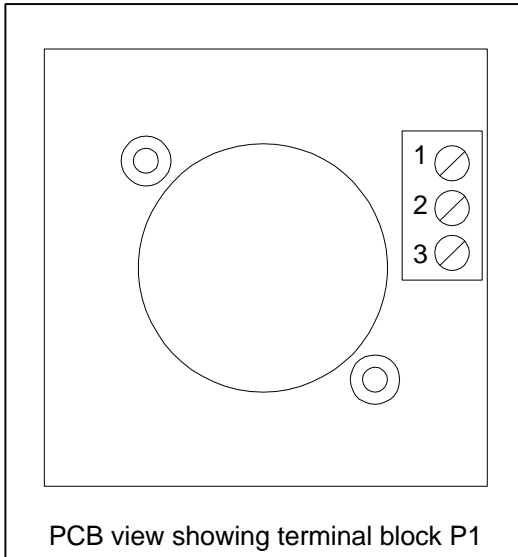
The temperature and humidity ranges shown in the specifications for this product must not be exceeded. This equipment must not be installed in an area that is subject to a corrosive atmosphere, excessive moisture or which may allow water or other liquids to come into contact with the unit or its external connections.

### To install this product you will need;

- A small flat bladed screwdriver.
- Suitable wire cutters, strippers, ferrules and crimp tool.
- A BS4662 back box with a minimum internal depth of 28mm.
- Suitable screened pair cable for connection of control to BMB01 (see below).

## Connections

### Terminal Allocations:



| Pin | Function | Notes                            |
|-----|----------|----------------------------------|
| 1   | Control+ | Connects to BMB01 Analogue Input |
| 2   | Control- | Connects to BMB01 0Vout          |
| 3   | N/C      | No connection (or screen)        |

### Cable Types

Use screened pair cable, ensuring that total cable loop resistance is not greater than 100 ohms. Maximum distance for typical 24awg CAT5 cable is approximately 500m.

Multiple controls may be fed from a single multi-pair screened cable e.g. CAT5 STP 4-pair.

### Recommended installation procedure

- Connect field-cabling pair to terminals 1 and 2 and to BMB01 terminals as shown above. Ferrules are recommended on all connections
- Connect cable screen to back-box earthing point and to suitable earthing point adjacent to the BMB01. Ensure that no other earth connections are made.  
If a back-box earth point is not available the screen may be terminated into P1 terminal 3.
- Mount control plate onto back box with screws supplied, ensuring that no cabling becomes trapped or crushed.

## Control configuration

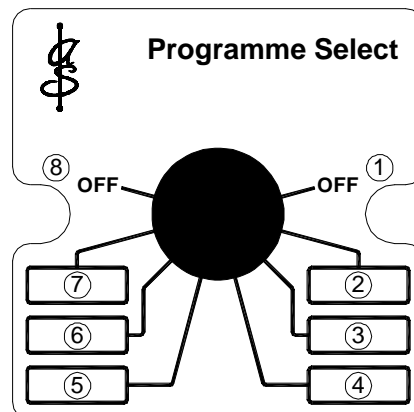
Control configuration is carried out via the VAR router user interface. Refer to the VAR Router handbook for further detailed information.

## Volume controls

Volume controls provide 12 steps of attenuation. 33dB of control is provided from positions "1" to "11" fixed at 3dB per step with "0" providing an "Off" position.

## Program selectors

Program selector positions are shown below. Each position may be configured to route any signal source to any output zone or combination of zones.



## Fault indication

All configured controls are fully monitored. A cable break or short circuit will cause a fault to be indicated at the VAR Router display.

## Specifications

|   |   |
|---|---|
| Current consumption                       | 1mA max   |
| Supply Voltage range                      | 5V DC max from BMB01 analogue Input                               |
| Dimensions (H x W x D)                    | Single gang 85mm x 85mm x 53mm<br>Double gang 145mm x 85mm x 53mm |
| Weight                                    | Single gang approx. 100g<br>Double gang approx. 190g              |
| Temperature range (storage and operating) | -5°C to +50°C   |
| Humidity range                            | 0% to 93% Non-condensing  |

## Manufacturer

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This equipment is designed and manufactured in the UK by  
Application Solutions Ltd  
to a quality system certified to the internationally  
recognised quality standard: BS EN ISO 9001: 1994

Certificate number: 96-LON-AQ-041

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