



The BMB01 is an input and output control port (I/O) expander for the VAR series of routers. The VAR Routers are able to support the connection of up to 9 remote BMB01 units, connected by a multi-drop RS485 serial interface.

Each BMB01 unit provides the following inputs and outputs to extend the control and interfacing capability of the router:

- 12 analogue inputs
- 12 digital (opto-isolated) inputs
- 12 digital (open collector) outputs

These input and output control ports may be used for functions such as: Program Selection, Volume Control, Fault Input, Routing Control, Routing Reset Input, External Fault Input, and Busy Output.

The BMB01 is housed in a DIN-rail mountable enclosure suitable for use either within a central equipment rack or remotely, at distances of up to 1km from the VAR Router.

For further details please refer to the BMB01 product manual, the DSP Router manual, and the Application Solutions PA/VA Systems Design Handbook or visit [www.asl-control.co.uk](http://www.asl-control.co.uk).

## Specification

---

### General

---

Supply voltage range.....	18 – 40V DC
Current consumption.....	70mA @ 24V DC supply
Open collector maximum rated current.....	350mA
Open collector maximum voltage.....	60V
Analogue input voltage range.....	0 – 5V (nominal) 24V max without physical damage
Digital input voltage range.....	12 – 48V

---

### Dimensions and Weight

---

Dimensions (H x W x D).....	105mm x 156mm x 58mm
Weight .....	300g

---

### Environmental

---

Temperature (storage and operating) .....	–5°C to +50°C
Humidity range .....	0% to 93% Non-condensing



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

EMC EN 55103-1 Environment E1, EN 55103-2 Environment E5  
 Safety EN 60065

Failure to use the equipment in the manner described in the product literature will invalidate the warranty.

A 'Declaration of Conformity' statement to the above standards, and a list of auxiliary equipment used for compliance verification, is available on request.

**Manufacturer**

Application Solutions Limited

Head Office: The Riverside Centre - Railway Lane  
 Lewes - East Sussex - BN7 2AQ - UK

Tel: +44(0)1273 476608 Fax: +44(0)1273 478888

Voice Alarm Direct: Tel: +44(0)1273 405411 Fax: +44(0)1273 405415

[www.asl-electronics.co.uk](http://www.asl-electronics.co.uk)



**QUALITY ASSURED FIRM**  
CERTIFICATE NUMBER 96-LON-AQ-041

All rights reserved.

Information contained in this document is believed to be accurate, however no representation or warranty is given and Application Solutions Limited assumes no liability with respect to the accuracy of such information.