EF-BMB01
Remote I/O Unit

Overview

The EF-BMB01 is an input and output control port (I/O) expander for the EFDAU2000 Wall-Mount Voice Alarm System.

Each EFDAU2000 panel allows for the connection of up to 9 remote EF-BMB01 units, connected by a multi-drop RS485 serial interface.

Each EF-BMB01 unit provides the following inputs and outputs to extend the control and interfacing capability of the EFDAU2000 panel:

• 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 EF-BMB01 is housed in a DIN-rail mountable enclosure suitable

for use either within the EFDAU2000 panel enclosure or can be installed remotely, at distances of up to 1km from the EFDAU2000 panel.

For further details please refer to the EF-BMB01 manual.

Features and benefits

• Expands the number of I/O connections to EFDAU2000 panel

• DIN rail mounted
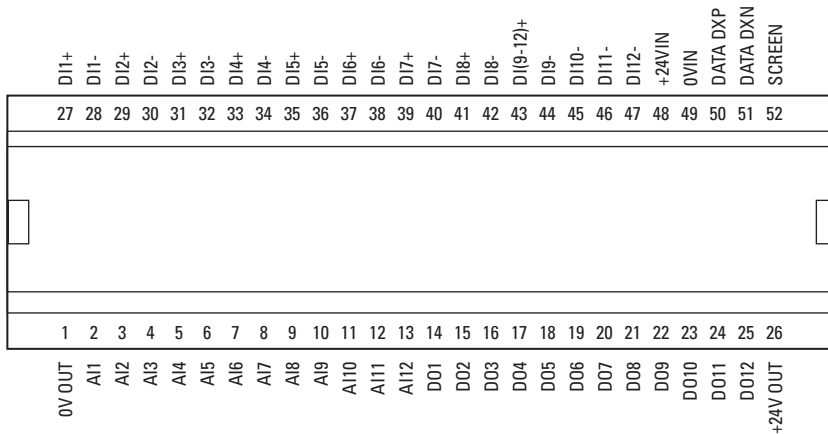
• Interface 3rd party systems

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Specification

Supply voltage range	18 – 40 V DC
Current consumption (max, all LED's on)	70 mA @ 24 V DC supply
Digital outputs	12 x active-low open-collector outputs
Open-collector maximum rated current	350 ma
Open-collector maximum voltage	60 V
Analogue inputs	12 x non-isolated analogue interfaces internally pulled up to 5 V by 4.7 kΩ
Digital inputs	12 x opto-isolated interfaces with built-in resistor to suit voltages of +12 to +40 V
Data connection	EIA RS485 9600 baud
Temperature range (storage and operating)	-5 °C to +50 °C
Humidity range	0 % to 93 % non-condensing
Dimensions (H x W x D)	105 mm x 156 mm x 58 mm
Weight	300 g

General

Pin no	Signal	Description / operation
1	0V OUT	0 V connection for Analogue Inputs
2-13	AI1-AI12	Analogue Inputs (internal 4.7 kΩ pull-up to +5 V)
14-25	DO1-DO12	Digital Outputs (open-collector)
26	+24V OUT	+ve supply (as 24 V in) for open-collector outputs. Resettable internal 1.6 A fused.
27-42	DI1-DI8	Digital Inputs 1 to 8 + = Opto-anode (with internal 4.7 kΩ pull-up to +5 V enabled/disabled via link settings) - = Opto-cathode
43	DI(9-12)+	Common connection to external pull-ups on the anode of the opto-isolators of Digital Inputs 9 to 12
44-47	DI9-DI12-	Digital Inputs 9-12 (opto-cathode)
48	+24V IN	18-40 V Supply In
49	0V IN	0 V Supply In
50	DATA DXP	RS485 DATA +
51	DATA DXN	RS485 DATA -
52	SCREEN	Screen connection for RS485 data

Eaton order codes

EFDAU2000	1 x Wall mount voice alarm system with capacity for up to 10 amplifier cards
EF-BMB01	1 x Remote I/O Unit

Further information

Please refer to the EF-BMB01 and EFDAU2000 manual for further details.

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