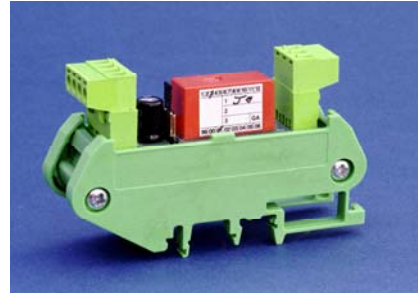


## TECHNICAL OVERVIEW

Intended for applications which require independent manual override of digital output channels from a BMS controller, as a failsafe in the event of controller failure. The ADM 101 is particularly useful for commissioning and temporary control of plant, as the outputs can be switched without a controller connected. Designed especially for BEMS controllers with outputs which have limited current draw capability, the ADM 101 requires less than 1mA at 10Vdc to switch. The module also provides an alternative to the ADM 101 with the benefit of Hand/Off/Auto and LED status features.



## FEATURES

- 0-10Vdc input
- 10A relay output
- Less than 1mA current draw on input
- Hand/Off/Auto link selectable
- LED status indication
- 24Vac/dc powered
- DIN rail mounting

## SPECIFICATION

<b>Input Signal:</b>	0-10Vdc@<1mA
<b>Output Contact:</b>	10A at 230Vac resistive 6A at 230Vac inductive
<b>Power Supply:</b>	24Vac/dc ( $\pm 12\%$ ), 20mA max

**NB:** When using an AC supply one half of the transformer winding must be grounded, and common to the controller's 0V).

<b>Manual Override:</b>	ON/OFF/AUTO link selectable
<b>LED Indication:</b>	ON when relay energised
<b>Electrical:</b>	Terminals for 0.5-2.5mm <sup>2</sup> cable
<b>Connections:</b>	Rising cage connectors
<b>Ambient Range:</b>	-10 to 50°C
<b>Dimensions:</b>	77mm x 24mm x 45mm
<b>Installation Category:</b>	IEC 664 Category 11
<b>Pollution Degree:</b>	IEC 664 Degree 1
<b>Country of Origin:</b>	UK
<b>Product Code:</b>	<b>ADM 101</b>

### Ambiflex Ltd

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### AMBIFLEX DATA SHEET: PAGE 1 of 2

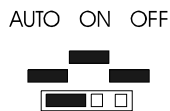
### ADM 101 Single Channel Override Relay Module

## SPECIFICATION continued

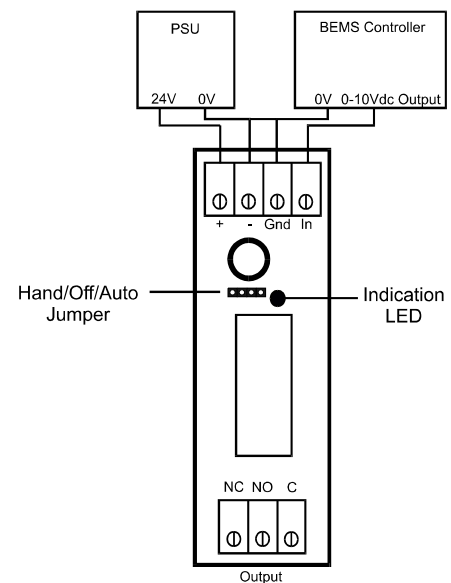
All connections to BEMS controllers, data recorders, etc, should be made using screened cable. Normally, the screen should be earthed at one end only (usually the controller end) to avoid earth hum loops which can create noise. Low voltage signal and supply cables should be routed separately from high voltage or mains cabling. Separate conduit or cable trays should be used. Where possible, the screen of the cable feeding the sensor should be connected to a FUNCTIONAL EARTH, rather than the mains safety earth. This will provide better immunity to high frequency noise. Most modern buildings have a separate earth for this purpose.

## INSTALLATION INSTRUCTIONS

- 1) The ADM 101 can be powered from a grounded 24Vac supply, or a 24Vdc supply. If used with a floating 24Vac supply the unit will ground one side through the signal OV connection. It is essential that the power connections are made to the correct terminals, as shown below.
- 2) Check that all the manual override link is in the AUTO position:



- 3) Wire the module to a 0-10Vdc controller output as shown below.
- 4) Connect the ADM 101 to the plant to be switched.
- 5) Apply power and check correct operation of plant by moving the Hand/Off/Auto link.



## IMPORTANT INSTALLATION NOTES

- The ADM 101 should only be installed by a competent, suitably trained technician, experienced in installations with hazardous voltages (>50Vac & <100Vac or >75Vdc & <1500/vdc).
- The ADM 101 might not remain safe if installed in a fashion contrary to these installation instructions.
- The ADM 101 should only be installed for use with hazardous voltages if these hazardous voltages incorporate a switch or circuit breaker.
- All terminals must be disconnected before screwing or unscrewing the terminals.
- Cleaning should be performed with a dry cloth or brush. Wet solvents should not be used.

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### ADM 101 Single Channel Override Relay Module