Do you need to expand the number of relay outputs on your Salcom 12-84 Relay Output Paging Receiver or control relays via the serial port from your PC? The 12-34 may be the solution you have been looking for!

Salcom 12-34-0000 Relay Output Module

The 12-34 is a low cost relay output module which enables four relays to be remotely controlled using the Salcom relay control protocol. The module provides a fully scaleable relay expansion solution for the 12-84 Relay Output Paging Receiver as modules can be "daisy chained" to control any number of relays.
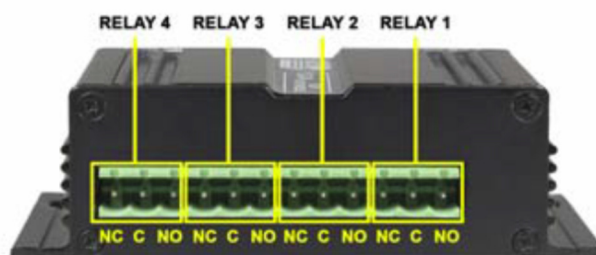
While it is most commonly used to expand the number of relay outputs available on the Salcom 12-84 Relay Output Paging Receiver, it has the potential to be utilised with other paging receivers and also can be used autonomously under computer control.

The relay unit connects directly to a 12-84 receiver or PC serial port without any special configuration requirements. The 12-84 can be configured to send all relay control packets down the serial port to all other units.

Programming software is not required for this product, all configurable parameters can be programmed via the serial port using a terminal program on a PC.

On start-up the firmware version number, monoshot timer settings and unit ID are displayed, and can be changed.

The 12-34 is housed in a durable extruded aluminium case, but should be protected from the weather if installed outdoors.

- **Four relays**

- **Units can be "daisy chained" to control any number of relays**

- **12 volt operation**

- **Individually programmable outputs**

- **No special software required-program configurable parameters using a terminal**

- **Can be used to switch relays under computer control**

- **Ideal for remote switching applications - lights, pumps**

- **Reverse polarity protected**

- **Optional relay restoration on power-up**

- **LED indication of operational status**

- **Rugged extruded aluminium case**

<table>
<tr><td colspan="2" align="center">**Technical Specification**
12-34-0000 - Relay Output Expansion Module</td></tr>
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Power Supply	+13.8V typical (11 to 15 VDC range)
Power Consumption	Normal Operation: 37mA Relays: 20mA per energized relay
Configuration Application	Terminal
Programming Cable	12-45-0000 (RJ12 - DB9) Can be used with a USB to RS232 DB9 Serial Adapter Cable
Serial Port	9600 , N, 8, 1; RS232
Discrete Outputs	4 Relay Contacts (1A @ 24VDc) Note: Not suitable for 240VAC Connections
Connectors	Serial Port 1 (RS232) = RJ12 (6P6C) Serial Port 2 (RS232) = RJ12 (6P6C) Relay Outputs (4 off) = 12-way plug & socket, screw connections (supplied)
Power Connector	2-way plug & socket, screw connections (supplied)
Environmental Protection	Not suitable for outdoor use and should be protected from adverse environmental conditions
Operating Temperature	-10ºC to +50ºC (+14ºF to +122ºF)

Indicators	Power LED (Green)
	  - Slow Flashing = Normal Operation
	  - Solid (>1s) = Valid Command Received
	Status LED (Red)
	  - On = Valid Command for This Unit
	  - Fast Flashing = Error Condition

Weight	160g
Enclosure Dimensions	70mm x 100mm x 30mm (WxDxH)
Enclosure Material	Extruded aluminium
Colour	Matt black

Configuration tool available for free download at: www.salcom.com/products/page/12-34-0000

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