

Using the 12-84 Relay Receiver, devices can be controlled remotely by sending commands from a portable or fixed location paging transmitter or wide area paging network to switch relays on or off. It is available in two versions, a VHF 12-84-0150 and a UHF 12-84-0450.



Salcom 12-84-7000 VHF/UHF Relay Output Paging Receiver

The unit receives and decodes a numeric or alphanumeric pager call. If the received unit number matches the 12-84 unit number or group number, the relays are switched as commanded by the message.

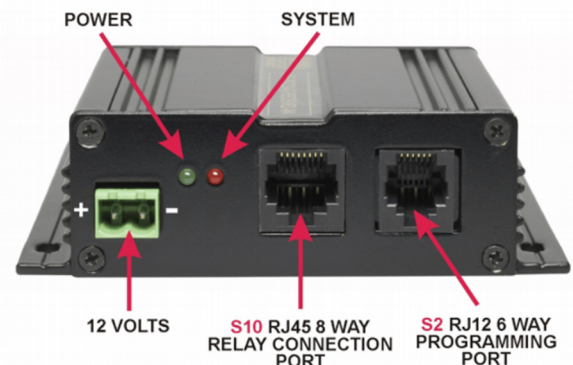
The receiver is supplied with two clean contact relays rated at 1A 24V DC operation. LEDs indicate receiver operation and the relay(s) status.

Normally closed and normally open relay contacts are available and the relays can be individually programmed for latching or momentary operation.


The 12-84 is an economic solution for basic remote control applications where only one or two switched outputs are required.

Should a greater number of relays be required, this can be achieved using the Salcom 12-34 Relay Output Module which provides another four relays. This module can be "daisy chained" to allow any number of relays to be controlled.

Network paging messages can be monitored on a PC (using software such as Salcom's VisualPET paging software) using an optional cable to connect the computer to the 12-84 programming connector.



- Extremely sensitive receiver
- Synthesised frequency selection
- POCSAG message format
- Individually programmable outputs
- RS232 serial output (optional cable) provides the ability to monitor network paging messages
- Ideal for remote switching applications, e.g. lights, pumps
- Capable of operation on normal POCSAG paging networks or in-house systems for remote operation applications
- 12 volt operation
- Reverse polarity protected
- LED indication of correct receiver operation
- Relay restoration on power-up
- Rugged extruded aluminium case

Technical Specification		
12-84-7000 – VHF / UHF Relay Output Receiver		
Frequency Range	148-165MHz - VHF (Model No. 12-84-7150) 440-480MHz - UHF (Model No. 12-84-7450) <i>Note: 80MHz to 900MHz available on request</i>	
Frequency Selection	User configurable <i>Note: VHF model is only adjustable by ±5MHz from (customer defined) factory preset frequency</i>	
Power Supply	+13.8V typical (11 to 15 VDC range)	
Power Consumption	Standby: 40mA Relays: 18mA per energised relay	
Modulation	FSK with NRZ data	
Receiver Sensitivity	Approx -124 dBm	
Baud Rates	512, 1200	
Message Format	POCSAG	
Configuration Application	12-84SE PSD	
Programming Cable	12-45-0000 (RJ12 to DB9) Can be used with a USB to RS232 DB9 Serial Adapter Cable	
Serial Port	9600 , N, 8, 1; RS232	
Discrete Outputs	2 Relay Contacts (1A @ 24VDC); 2 Open Collector (100mA max) <i>Note: Not suitable for 240VAC Connections</i>	
Connectors	Serial Port (RS232) = RJ12 (6P6C) Outputs (Relay / Open Collector) = RJ45 (8C)	
Power Connector	2-way plug & socket, screw connections (supplied)	
RF Connector	50Ω BNC (Product supplied with aerial)	
Environmental Protection	Not suitable for outdoor use and should be protected from adverse environmental conditions	
Operating Temperature	-10°C to +50°C (+14°F to +122°F)	
Indicators	Power LED (Green) - Slow Flashing = Normal Operation - Solid (up to 5s) = Receiving Data Status LED (Red) - Flashing = Error Condition	
Weight	180g	
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/12-84-7000

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