

Ideally suited to a variety of reception, retail assistance and control applications, the 12-86-9000 is a small, high specification, POCSAG paging transmitter utilising the 12-86-5000 paging transmitter printed circuit board. It is capable of transmitting text messages directly to pocket pagers.



## 12-86-9000 Call-Point Paging Transmitters

The 12-86 range of products can send text messages directly to paging receivers, providing simpler, lower cost systems since intermediate receivers and transmitters are not required for short range applications.

Using an appropriate receiver, the 12-86-9000, can also be used for a general remote control applications such as turning on lights, disabling alarms etc.

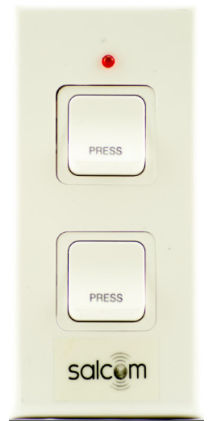
Powered by a standard CR2032 coin cell, the transmitter will operate for more than one thousand transmissions under normal conditions before the battery needs to be replaced.

12-86 transmitters support up to five inputs, each of which can be programmed with up to a thirty five character message. The units can be programmed with a serial programming cable (purchased separately) or they can be supplied pre-programmed.

Programming software is available for download from the Salcom web site ([www.salcom.com](http://www.salcom.com)).

Although the 12-86 is a low power transmitter, when used as a call-point paging transmitter a direct line of sight range of up to eight hundred metres can be expected. When used within buildings the range will be reduced depending upon the building, but it will still be significant.

The 12-86-9000 fits the form factor of many standard electrical face plates so that it can remain in keeping with the surrounding switch gear in cosmetically sensitive areas.



By default the 12-86-9000 is supplied with a mounting block, but it can be flush mounted in the same manner as most electrical switch plates if required.

### 12-86-5000 / 5005 PCB Transmitter options

- The 12-86-5000 transmitter PCB used in this product is a small low cost, high specification bare printed circuit board paging transmitter measuring 60mm by 31mm and only 6mm deep with the battery fitted.
- It has been tested and type approved as a bare printed circuit board allowing integration into other products without further type approval testing being required.
- The two variants are: 12-86-5000 for the bare circuit board (no switches); or
- 12-86-5005 which includes 5 fitted switches, an antenna and a single LED indicator.



<b>Technical Specification</b>	
<b>12-86-9000 – UHF Call Point Transmitter</b>	
Frequency Range	440-470MHz - UHF
Frequency Selection	User configurable
Power Supply	3V CR2032 button cell
Battery Life	Approx 1000 transmissions Approx 10 years standby
Power Consumption	Standby: 100nA Transmit: 45mA
Transmit Power	10mW
Channel Spacing	25kHz
Modulation	FSK with NRZ data
Deviation	±4.5kHz
Transmit Duty Cycle	Up to 20%; Maximum 30 seconds on time
Baud Rate	512
Message Format	POCSAG
Configuration Application	12-86 PSD
Programming Cable	12-47-0000 (Board header to DB9) Can be used with a USB to RS232 DB9 Serial Adapter Cable 12-48-0000 (Board header to mini USB)
Serial Port	9600 , N, 8, 1; RS232
Discrete Inputs	1 or 2 button options
RF Connector	Internal aerial
Environmental Protection	Not suitable for outdoor use and should be protected from adverse environmental conditions
Operating Temperature	-10°C to +55°C (+14°F to +131°F)
Weight	90g
Enclosure Dimensions	50mm x 113mm x 46mm (WxDxH)
Enclosure Material	Plastic
Colour	White
Type Approvals	AS/NZS 4769.1:2000 + Amendment 1:2002 (RF) EN 300-224-2 (RF) FCC CFR47 Part 90 (RF) EN 301 489-2 V2.1.0 (EMC) EN 60950-1:2006 (Safety)



Programming software available for free download at:

[www.salcom.com](http://www.salcom.com)

Support: Tel: +64 (0)3 379 2298

