

Aimed at integrators and developers , the 12-86-5000 series is a small, high specification, POCSAG paging transmitter printed circuit board, inheriting all of the type approvals of the 12-86-9000 Call Point Transmitters range and the 12-86-0000 Pendant transmitter range of products.



12-86-5000 UHF PCB 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 12-86-5000, can also be used for a general remote control applications such as turning on lights, disabling alarms etc.

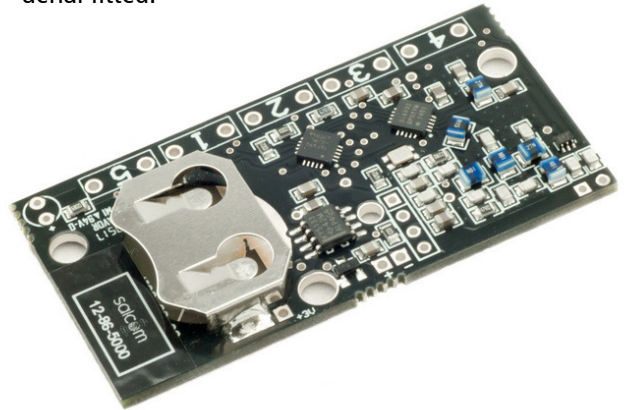
Powered by a standard CR2032 coin cell, the transmitter will operate for more than one thousand transmissions under normal conditions before the battery needs to be replaced.

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.

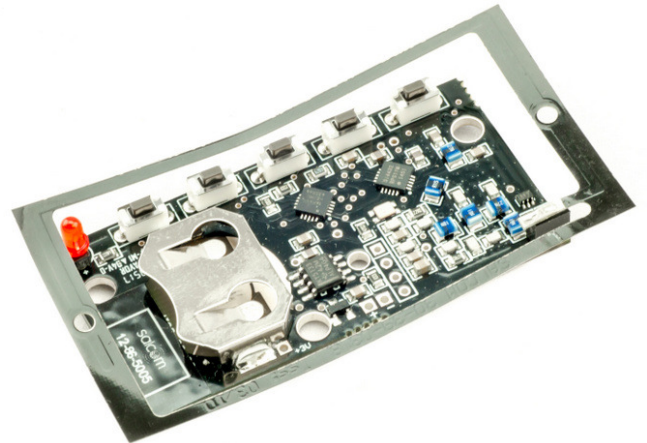
Programming software is available for download from the Salcom web site (www.salcom.com).

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 **12-86-5000** transmitter PCB - no buttons, LED or aerial fitted.



The **12-86-5005** transmitter PCB - upto 5 buttons, aerial & 1 LED fitted as options.



- The 12-86-5000 transmitter PCB 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.

Technical Specification 12-86-5000 – UHF PCB Transmitter Series		
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 Configuration tool	
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 to 5 contact (12-85-5000) 1-5 buttons (optional) (12-86-5005)	
RF Connector	Aerial (12-86-5005 only—optional)	
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	40g	
Enclosure Dimensions	60mm x 31mm x 6mm (WxDxH) with battery fitted	
Enclosure Material	N/A	
Colour	N/A	
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

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