

## Product Sheet

# 20-86-9000 Series

## Call-Point Paging Transmitters

Ideally suited to a variety of reception, retail assistance and control applications, the 20-86-9000 is a small, high specification, POCSAG paging transmitter utilising the 20-86-5000 paging transmitter printed circuit board. It is capable of transmitting text messages directly to pocket pagers.



Product code  
20-86-9001



Product code  
20-86-9002

### Key Features

- The 20-86 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 20-86 series, 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 approximately five thousand transmissions under normal conditions before the battery needs to be replaced.
- Although the 20-86 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.
- The 20-86-9000 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 20-86-9000 is supplied with a mounting block, but it can be flush mounted in the same manner as most electrical switch plates if required.

### Programming

20-86-9000 series transmitter has one or two switch option, each of which can be programmed with up to a thirty five character message.

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

### Transmitter options

The 20-86-5000 transmitter PCB used in this product is a small low cost, high specification bare printed circuit board paging transmitter measuring 55.5mm x 32.5mm x 6.5mm with 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: 20-86-5000 for the bare circuit board (no switches); or 20-86-5005 which includes 5 fitted switches, an antenna and a single LED indicator.

## Technical Specification

### 20-86-9001 and 20-86-9002 - UHF Transmitter

Options	20-86-9001: One momentary switch 20-86-9002: Two momentary switches
Frequency Range	440-470MHz
Frequency Selection	Via software
Power Supply	3V, CR2032 button cell
Battery Life	Approx. 5,000 transmissions Approx. 5 years standby
Power Consumption	Standby: <0.5µA Transmit: 31mA
Transmit Power	10mW
Channel Spacing	25kHz, 12.5kHz, or 6.25kHz
Modulation	FSK with NRZ data
Deviation	±4.5kHz, ±2.3kHz, or ±1.0kHz
Transmit Duty Cycle	Up to 20%; Maximum 30 seconds on time
Baud Rate	512, 1200, or 2400
Message Format	POCSAG; Alphanumeric or Numeric
Configuration Application	Sacoto (Salcom Configuration Tool software)
Programming Cable	20-51-0001 (USB)
Serial Port	9600, N, 8, 1; 3V TTL
Antenna	Internal antenna
Indicators	Red LED (centre): Solid = Transmitting Rapid flashing = Low battery
Environmental Protection	Must be located to be protected from water
Operating Temperature	-10°C to + 55° C (+14°F to +131°F)
Weight	88g with battery
Case Dimensions	Enclosure: 103mm x 51mm x 43mm (L x W x H) "Worktop" footprint Switch height: 4mm
Enclosure Material	Polycarbonate (PC)
Approvals	CE, FCC and AS/NZS Pending

NB: All specifications and applications are indicative only and subject to change without prior notification.