

## Product Sheet

# Multi-Purpose Transmitter

## 20-85 Series

The 20-85 is a compact paging transmitter suitable for hand-held or wall mounted use. Each button on the unit can be programmed with a message. Pressing a button will transmit the message associated with that button to a pocket pager where it will display on the screen.

The units are available in VHF and UHF versions. Transmitters configured to send paging messages can be utilised in a wide variety of applications such as personal and commercial security, medical alert, paging in restaurants and bistros, and customer assistance in supermarkets or hardware stores.

### Advanced Low Battery Indication (ALBI) Feature



If the RED indicator flashes **during transmission** this indicates low battery status



A low battery message can be sent to the **receiver or separate receiver RIC/Code** with specific message of Low Battery



Solid RED indicator confirms Transmission being sent



When paired with suitable transceiver the Green indicators provide a visual confirmation the message was received by receptor

### Key Features

- » Available in VHF or UHF versions
- » Internal battery operation
- » Simple telecontrol solution
- » Capable of operating on existing in-house paging systems
- » Ideal for remote switching (lights/pumps etc.) when used with a 20-90 relay output receiver
- » Rugged & compact
- » Individually programmable buttons
- » Equipped with receive function
- » Unique Advanced Low Battery Indication (ALBI) Feature

### Applications

The 20-85 can be programmed to send control instructions to specialised paging receivers capable of controlling relays. Using this product combination, the transmitter can be used for remote machinery control.

### Programming

The transmitters can be programmed to suit application requirements using Salcom product support software and the accompanying programming adapter.

### Operation

A front panel LED indicates when the transmitter is operating. Using two user-replaceable AA batteries this transmitter offers a life of up to 10,000 transmissions with a range of up to 1000 meters

## Technical Specification

20-85-0151, 20-85-0154, 20-85-0158 (VHF)

20-85-0451, 20-85-0454, 20-85-0458 (UHF)

Options	VHF: 20-85-0151: One button 20-85-0154: Four buttons 20-85-0158: Eight buttons UHF: 20-85-0451: One button 20-85-0454: Four buttons 20-85-0458: Eight buttons
Frequency Range	VHF: 140 – 174MHz UHF: 440 – 470MHz
Frequency Selection	Via software
Power Supply	Two AA Alkaline batteries (LR6)
Battery Life	Approx. 50,000 transmissions Approx. 5 years standby
Battery Replacement	Removal of rear case
Power Consumption	Standby: <0.5µA Transmit: 70mA
Transmit Power	50mW
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; optional SMA
Environmental Protection	IP65
Operating Temperature	-10°C to +55°C (+14°F to 131°F)
Weight	170g with battery
Screws	PH-1 driver
Screw Torque	0.3 N*m
Case Material	ABS Plastic
Case Dimensions	118mm x 79mm x 26mm (L x W x H)
Case Flame Rating	UL94 V-0
Approvals	EN 301 489-2 V2.1.1 (2019-4) (Pending) EN 300 224 V2.1.1, 2017-06 (Pending)

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