

JTECH

VHF - UHF SYNTHESIZED 4 WATT POCSAG PAGING TRANSMITTERS

The 11-62 (VHF) and 11-75 (UHF) are stand-alone 4 Watt POCSAG paging transmitters with an in-built encoder. The units can be controlled via an RS232 serial interface to provide numeric, alphanumeric and tone-only POCSAG encoding. This enables a user to call a pager (over 2,000,000 codes), append an appropriate priority level (1 of 4), and add a numeric or alphanumeric message.

Messages are limited to 120 characters by the transmitter buffer size, and to 240 character pre-defined messages by the Product Support Disk (PSD) programming software. Serial control is achieved using ASCII character commands.

The units support 12 discrete inputs with a different pre-programmed message on high and/or low transition, plus a low voltage detection message on the power input.

The inputs can be configured to act as 12 individual inputs or binary code inputs to select pager number, pager message, and priority level. Provision to transmit a message more than once is also catered for as well as variable time between transmissions.

In addition to the Salcom proprietary protocol, the RS232 port can be used to initiate paging transmissions using the Paging Entry Protocol (PET) or Telocator Alphanumeric Protocol (TAP) PG1 protocol. For Dial-up applications, a Hayes compatible modem is also supported.



SPECIFICATIONS

Power Supply	+11.5V to 15.2V nom 13.8V
RF Frequency	11-62: 138-170 Mhz 11-75: 450-470 MHz
Channel Spacing	12.5 kHz or 15 kHz
Power consumption	Standby: 45mA Low power standby: 15mA Transmit: 800mA approx.
Modulation	Carrier FSK with NRZ data POCSAG
Deviation	± 4.5 kHz or ± 2.5 kHz
Baud Rate	512/1200/1600/2400 baud
Spurious outputs	-30dBm or less
Serial Protocols	SALCOM proprietary, PET (PG1) GPS (NMEA \$GPGGA)
Discrete Inputs	Pulled up to +12V (47k), ground to activate. Threshold approximately 3V
Discrete Outputs	+12V on P5 pin1 (200mA max) +12V switched P5 pin 9 (200mA max) PTT & data on P7 pins 5 and 9 (200mA sink with 47k pull-up to 5V)
Case dimensions	140 x 105 x 32mm
Type approvals	New Zealand - Australia AS4295
Transmit duty cycle	Up to 100%

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