

FMT-PET 27MHz PERSONAL EMERGENCY TRANSMITTER

The Personnel Emergency Transmitter (PET) is part of a remote controlling system. A few of its applications could be as:

- a calling device for the elderly or handicapped
- a personal security alarm activator for home safety or cash carrying businesses e.g. banks, shops service stations, etc.
- a remote control switching device for garage doors, lights, gates, automatic telephone dialer.
- a convenient activating/deactivating device for car alarms.



This Key Chain sized transmitter is housed in an attractive, high impact resistant plastic case. Its small size makes it possible for the PET to be worn under clothing, around the neck or carried in a pocket or a small handbag.

Pressing its sides positively activates the transmitter. Activation is confirmed by the sound of its built-in buzzer.

The battery service life approximates its shelf life. There may be one of three readily available 6-volt battery types used by the PET. Depending on the battery type, shelf life ranges between 1 and 10 years. While the transmitter is not transmitting it uses no power. The transmitter will operate on as low as 3 volts DC, however, in such cases the power and range will be reduced.

The highest possible standard of performance is achieved by employing a crystal-controlled, frequency modulated radio signal operating in the 27MHz band. This is enhanced by a specially dedicated custom-built integrated circuit. The latest "state of the art" surface-mount technology (SMD) provides maximum reliability.

A 12-way code switch (part of the digital encoding system) is used in place of the usual 8 or 10 way systems of other manufactures. This enables the user to select any one of the 4096 available codes and thus ensure highest security against false operations. The code can be readily changed at any time.

The transmitter maximum operating distance (in conjunction with our FMR series receivers) will average 50 to 80 metres. The operating distance may depend upon the structure of the building in which it's used. When operating near its range limit, some improvements may be obtained by pointing the transmitter towards the receiver. This is due to its slightly directional properties.

The hook on the case has been designed to accept the usual spectacle cords to facilitate the transmitter to be worn around the neck.

The remote controller is also available without its front label, to enable the fitting of customers own designed label. It should be noted that the FMT-PET is not waterproof.

TECHNICAL DATA ON FMT-PET

6-VOLT BATTERY POWER SOURCE :	Alkaline 4LR44 approx. 1-year shelf life. Silver Oxide 4SR44 approx. 2-year shelf life. Lithium approximately 8 to 10 years shelf life.
CURRENT CONSUMPTION :	35mA at 6 VDC Supply (Only while transmitting)
OPERATING FREQUENCY :	27.145MHz (Other frequencies available on 27.045, 27.195 and 27.455 MHz. The 27.455 frequency is not available for Australia).
CARRIER FREQUENCY TOLERANCE :	Crystal controlled 30 parts per million (0 to 50° C).
RADIATED R.F. POWER OUTPUT :	70.0 dB μ V/m at 3 metres.
ANTENNA :	Built in 30mm long ferrite rod.
TYPE OF EMISSION :	Narrow-band-width Frequency Modulation (5K00F1D)
FREQUENCY DEVIATION LIMITING :	1200 - 1600 Hz non-return to zero.
MODULATION FREQUENCY :	1 kHz (0.96 ms/bit) (15% tolerance).
SPURIOUS TRANSMISSION:	At least -40dB/carrier.
NECESSARY BAND WIDTH :	+ - 2.5 kHz
DIGITAL CODING SYSTEM :	On board 12-way coding switch (4096 channels).
DIMENSION :	60 X 40 X 16 mm
WEIGHT :	40 grams including battery
USEABLE OPERATING RANGE :	From 10 - 80 metres depending on building structure.
COMPATIBLE RECEIVERS :	All Elsema type FMR-... series.

Due to its popularity, ELSEMA PTY. LTD stocks the Alkaline 4LR44. The indicated shelf life is only approximate and can vary greatly depending on the freshness and type of brand used.