))) **eylex**

The TACMIC CT7 comprises an internal speaker and microphone, PTT switch, volume control and connectors for external headset and wired PTT ancillaries

- The TACMIC incorporates an auto changeover circuit which detects connection of a headset, in which case the internal microphone and speaker are inhibited. The TACMIC can be fitted with batteries for use on radios that have no DC supply. A battery save circuit is employed until audio is detected thus current consumption is extremely low. This greatly increases battery life. Additionally, if a DC supply is available from a connected radio the TACMIC will detect this and switch the batteries out of circuit.

- Audio amplifiers are employed to allow the speaker and microphone to be used without having to hold the TACMIC close to the face (this is referred to as the extended range function).

- A tone signalling facility is also provided. A heavy duty clothing clip is provided in the back of the TACMIC. The TACMIC may be connected to different radio types by use of the appropriate adaptor lead.

Electrical and Mechanical Characteristics

Internal Microphone Characteristics

Microphone matched to radio audio input circuit via built in PCB and separately available adaptor lead.

Type: Electret

Sensitivity	1 mV peak - peak (- 60 dB) @ 1 kHz (relative to 1 V/µbar)
Output Impedance	2500 Ω (maximum)
Radio Power Supply	2.5 V - 12 V (14 V absolute maximum)
Frequency Response	50 Hz - 13 kHz
Battery Option	2 x AA primary cells (non rechargeable batteries)
Quiescent Current Consumption	73 µA
Extended Operational Range Amplified Input (alternative factory configurations are available)	Approximately 600 mm

Headset and Radio Adaptor Lead Socket Specification

Connector Type	Audio 9-Pole IP 68 Series Plugs with Protective Caps

Remote PTT Socket Specification

Connector Type	Binder, 712 Series, 3 Pin with Protective Caps

PTT and Tone Switch Characteristics

Non-Latching Push Button, Electrical Life	Minimum 500,000 cycles
PTT Open (Receive)	> 10 MΩ to ground
PTT Closed (Transmit)	< 10 Ω to ground

Note 1:   Sounding of the tone signal in the TACMIC's speaker, as opposed to in a connected headset only for covert use, is a factory configured option. Some radios exhibit side-tone feedback problems with the speaker enabled.

Note 2:   For operational requirement reasons, the TACMIC contains no output limiting to the headset connector which may be capable of delivering audio levels higher than those recommended for long term exposure. Therefore always select the minimum practicable volume level on the connected radio.

Internal Speaker Characteristics

Speaker matched to radio audio output circuit via built in PCB and separately available adaptor lead.

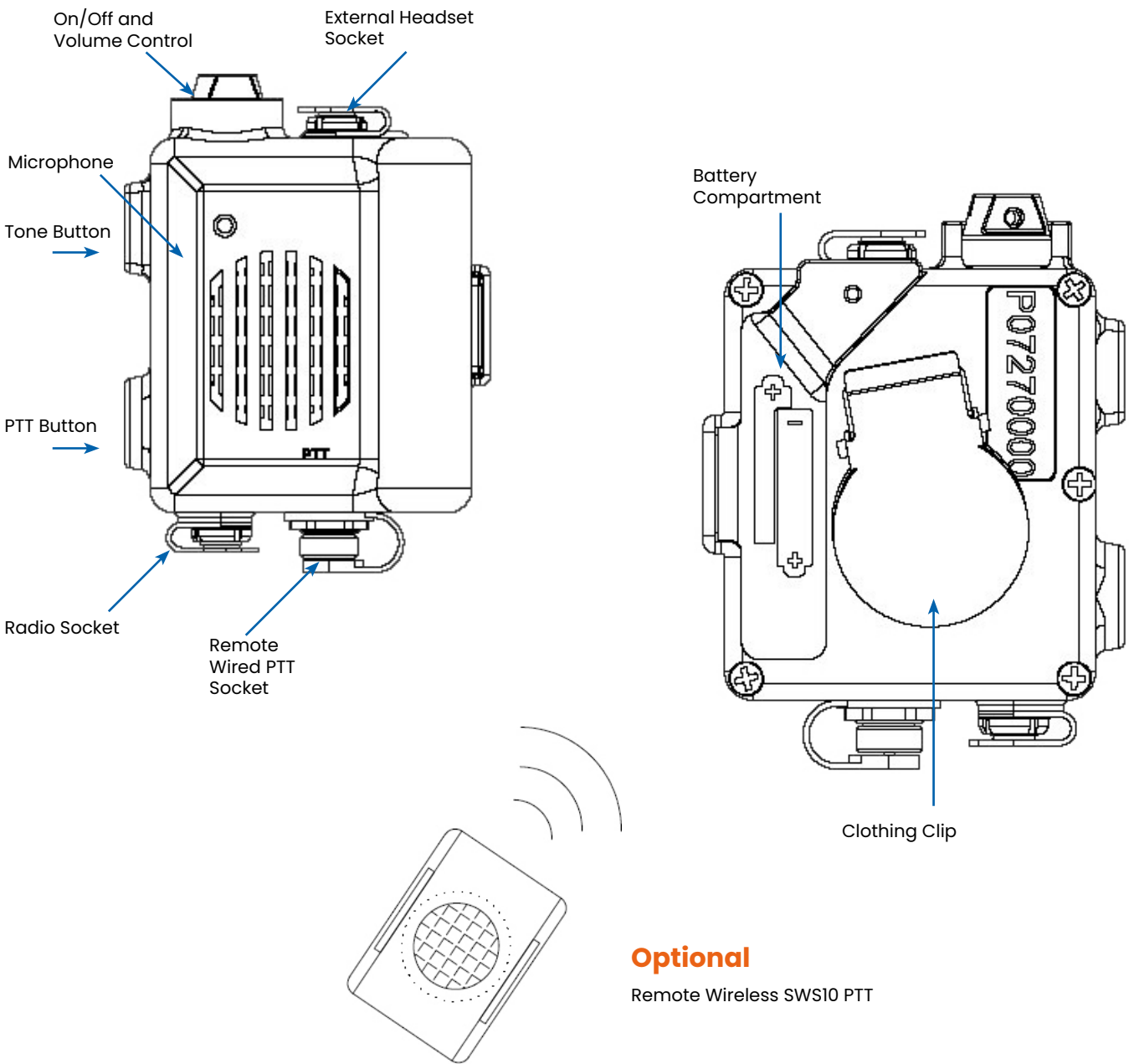|	
Transducer Type	Dynamic
Impedance	150 Ω ± 15% @ 1 kHz
Power Rating	1.0 W max
Harmonic Distortion	5% max @ 1 kHz for 0.5 W
Output Sound Pressure Level	94 ± 3 dB @ 0.1 m for 0.1 W average 0.6 to 1.2 kHz
Frequency Response Measures at 10 cm from Speaker Face	25 dB variation from 250 Hz to 4.5 kHz 10 dB variation from 450 Hz to 4.5 kHz
Extended Range Amplified Output **(alternative factory configurations are available)**	105 dB (A)
On/Off/Volume Switch	Rotary 8 position switch, on/off and 7 volume levels

Environmental Specifications

IP Rating	IP 68 (1.5 m)
Operational Temperature Range	– 30ºC to + 55ºC
Storage Temperature Range	– 40ºC to + 71ºC
Mass	167 g, excluding cables, accessories and batteries
Colour and Finish	Matt Black
Material	Glass filled nylon
Radio Down Lead Length	700 mm
Dimensions	105 mm x 74 mm x 38 mm (including dust caps but excluding clothing clip)
Optional Batteries	2 x AA (1.5 v) primary cells. Detects power supply from connected radio and automatically switches to internal batteries if no power supply is available

Electrical and Mechanical Characteristics continued

Optional External PTTs

Leonardo MW SWS2 and SWS4 wired remote PTTs are available, matched to radio PTT circuit. Similarly, an SWS10 or PRR type wireless remote PTT is available (the choice is determined by the type of connected radio to be used, please consult Eylex for best option).

General View of Equipment

On/Off and Volume Control

External Headset Socket

Microphone

Tone Button

PTT Button

Radio Socket

Remote Wired PTT Socket

Battery Compartment

P0727000

Clothing Clip

Optional

Remote Wireless SWS10 PTT

Partnered Supplier

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