

# Maxon SL100K HANDPORTABLE

# maxon



## FEATURES

- **Small Size**
- **199 Channels**
- **All features PC programmable**
- **Full Selcall features:-  
EEA, ZVEi 1, ZVEi 2, ZVEi 3,  
DZVEi, PZVEi, CCIR, CCIT and  
User defined Tonesets**
- **Built-in Inversion scrambler**
- **DTMF / Selcall Keypad**
- **ANI - Leading / Trailing edge**
- **Remote Stun / Revive**
- **Covert Call / Emergency Call**
- **High Capacity Battery**

*The SL100K is packed with features to give immediate benefits to any organisation using portable radio to maximise operational efficiency.*

*Fitting comfortably in the palm of the hand, the compact yet rugged SL100K is a powerful tool for communication. The rounded battery pack and general 'curvaceousness' of the radio give it a lightweight, comfortable yet secure feeling.*

*The SL100K is controlled by a sophisticated microprocessor which makes the radio remarkably simple to use.*

*However, simplicity does not mean featureless - The SL100K retains all the features expected of a high quality professional unit such as scanning, Programmable channels and Output Power, CTCSS/DCS and Selcall.*

*With Selective calling and DTMF, the SL100K can be used either in a simple group, or in an enhanced system to give a flexible network. The in-built inversion scrambler allows privacy and avoids eavesdropping by unauthorised users. Programmable features including Stun/Revive, Emergency Calling and Covert Call allow confident use in harsh conditions.*

*The SL100K offers a level of flexibility, robustness and cost effectiveness essential for today's markets.*

## GENERAL

### Performance Specifications

CE0168

Band	R&TTE Directive 1999/5/EC VHF (V2): 146 - 174MHz UHF (U2): 440 - 470MHz (Full switching bandwidth)
Number of Channels	199 fully programmable
Channel Spacing	12.5kHz, 20kHz or 25kHz (Programmable / per channel)
Operation	Simplex / Half Duplex
Antenna Impedance	50 Ohm, SMA
Tone Sets	CTCSS/DCS encode/decode EEA, ZVEi 1, ZVEi 2, ZVEi 3, DZVEi, PZVEi, CCIR, CCIT and User defined Selective Calling tonesets encode/decode DTMF encode
Power Supply	7.5V dc nominal
Current Consumption	TX: <2.2A @ 5W RF output RX: <40mA Standby (muted) with battery save ON <85mA Standby (muted) with battery save OFF <250mA Unmuted with 100% AF power
Battery Life	>8 hrs @ 5W with 1550mAh battery pack Intermittent 90:5:5 (Standby: RX:TX)
Weight	360g
Physical Dimensions	112 (H) x 61 (W) x 40 (D)

## TRANSMITTER

RF Output Power	1W / 5W programmable
Spurious and Harmonics (conducted):	Below 1GHz: Better than -36dBm Below 4GHz: Better than -30dBm
Modulation	G3E (PM)
Hum and noise (residual modulation):	12.5KHz: Better than 40dB (with PSOPH) 20KHz: Better than 40dB (with PSOPH) 25KHz: Better than 40dB (without PSOPH)
Microphone sensitivity	20mV +/- 15mV p-p @1KHz peak system deviation
Transmitter Audio distortion	<5% nominal <10% extreme (@ 1KHz, without CTCSS)
Load Stability	No oscillation at 10:1 VSWR No damage at 20:1 VSWR
Adjacent Channel Power:	12.5KHz: Better than 60dB 20KHz: Better than 70dB 25KHz: Better than 70dB nominal
Frequency error:	VHF: Better than 0.5KHz UHF: Better than 0.75KHz

## RECEIVER

Receiver Sensitivity	UHF: Better than -117dBm VHF: Better than -117dBm
Adjacent channel selectivity:	12.5KHz: Better than 60dB 20KHz: Better than 70dB 25KHz: Better than 70dB
Spurious response rejection:	Half IF response: Better than 70dB
Intermodulation response rejection:	+/- 25/50KHz: 65dB +/- 50/100KHz: 65dB
RX Spurious Emissions (conducted):	9KHz - 1GHz: Better than -57dBm 1GHz - 4GHz: Better than -47dBm
Audio Power Output:	1W min (4 Ohm internal speaker) 500mW min (8 Ohm external speaker) <10% THD
Interface Connector:	Single triple pole 3.5mm jack with screw lock

## ENVIRONMENTAL

Operating Temperature Range	-15 to +35 deg C nominal -30 to +60 deg C extreme
Robustness:	Designed to Mil Std 810 C procedures I, II & V, D & E
Protection against ingress of dust and water:	IEC 529 IP54
EMC	EMC Directive 89/336/EEC May 89
Humidity	EIA/TIA 603 (95%)

Figures above are typical and measured under normal operating conditions. As such they will not form part of any contract. Our policy is one of continuous improvement and we reserve the right to change product specifications without notice.

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