maxon®

programmable **SP-300 Series**

VHF/UHF scanning portables

Ready For A Full Day's Work

Maxon's SP-300 Series offers selectable per-channel power output settings, a variety of scan modes and a locking accessory connector; along with a choice of multi-channel models on VHF / UHF frequencies.

Providing power, customized operation, durability and convenience; the SP-300's are the solution to increased productivity.

4 or 16 Channel models available

Choose the 4 channel SP-310 (VHF) or SP-320 (UHF); or the 16 channel SP-330 (VHF) or SP-340 (UHF) radio to fit your communication needs

Programmable RF output

Select 5 or 1 Watt per-channel settings to maintain clear conversations no matter the environment

PC Programmable software options

Program multiple scan modes, scan channel delete, CTCSS / DCS signaling, busy channel lockout and more; customize the radio to fit your needs

Locking accessory connector

A locking connector keeps your radio accessories securely attached during demanding use

Multiple signaling options

Choose analog or digital encoders; also 2-tone decode, voice and speech inversion scramblers

Battery save capability

By placing the radio into "sleep" mode, radio battery life is extended - you gain productive communication hours

Durable frame and cabinet materials

Manufactured with a die-cast aluminum frame and polycarbonate cabinet

Approved to MIL-STD810F specifications

Ensured to work under the most rigorous of conditions

SP-300 Series

maxon®

specifications

general

	VHF model SP-310V / SP-330V	UHF model SP-320U / SP-340U
Frequency Range	V2: 148-174 MHz	U2: 440-470 MHz
Channels	4 / 16	4 / 16
Channel Spacing	30 / 25 / 15 / 12.5 kHz	
PLL Step	5.0 / 6.25 kHz	5.0 / 6.25 kHz
Channel Spread	26 MHz	30 MHz
Antenna Impedance	50 Ω	50 Ω
Operating Voltage	7.2V DC Nominal	7.2V DC Nominal
Battery Life (with 1350 mAh NiMH battery)	>8 Hours @ 5W (90-5-5 duty cycle)	
Operating Temperature	-22° F to +140° F (-30° C to +60° C)	
Frequency Stability (-30° C to +60° C)	± 2.5 ppm	± 2.5 ppm
Dimensions (H x W x D) (with battery)	5-9/16" x 2-1/4" x 1-7/16" (141 x 57 x 37 mm)	
Weight (with 1350 mAh NiMH battery and antenna)	16.4 oz. (465 gm)	16.4 oz. (465 gm)
FCC Identifier	F3J130-140V2	F3J130-140U2
FCC Compliance	Parts 22, 74, 80, 90.210	Parts 22, 74, 90.210 95A
Canada Certification Number	3772195280A	3772195281A

receiver (measurement procedures made per ANSI/TIA/EIA-603)

Sensitivity 12 dB SINAD	.25 µV	.25 µV
Selectivity	>65 dB @12.5 kHz; >75 dB @ 25 kHz	
Intermodulation	70 dB	70 dB
Spurious Response	75 dB	75 dB
Audio Output	400 mW (Int.) @ 2 Ω; 400 mW (Ext.) @ 8 Ω (Method @ <10% THD level)	

transmitter (measurement procedures made per ANSI/TIA/EIA-603)

	VHF model	UHF model
RF Output	5 Watts or 1 Watt (programmable per channel)	
Spurious and Harmonic Emissions	65 dBc	65 dBc
Modulation	16K0F3E, 11K0F3E	16K0F3E, 11K0F3E
FM Hum and Noise	>40 dB @ 12.5 kHz;	>45 dB @ 25 kHz
Audio Distortion	2%	2%

Specifications are subject to change without notice.

features / functions

- 4 or 16 Channel models available
- Programmable 5 or 1 Watt per-channel RF power
- Approved to MIL-STD810F Specifications
- Programmable wide / narrow channel spacing
- CTCSS / DCS Tone signaling
- Multiple signaling options (see "Accessories / Options")
- 12-Pin locking accessory connector
- Channel scan, priority channel scan, priority channel scan with look back and priority look back
- Scan channel delete
- Busy channel lock out
- Time-out-timer
- TX Inhibit
- Battery save circuitry
- Die-cast aluminum frame, polycarbonate cabinet
- FCC Certified for use in U.S.A. and its possessions and Canada Approved for sale / use in Canada

BVQi ISO 9002 Certification

Quality assurance program

Manufactured under ISO 9002 quality standards and backed by our Quality Assurance Program

MIL-STD methods / procedures

The SP-300 Series is approved to the following:

Standard	810F Method / Procedure
Rain (Watertightness)	506.4 / Proc. II
Humidity	507.4 / Proc. I
Dust	510.4 / Proc. I
Vibration	514.5 / Proc. I, IV
Shock	516.5 / Proc. I, IV

accessories / options

Battery: 1350 mAh NiMH Battery pack (ACC-200)

Antennas: VHF Antenna, 5-1/2", 150-162 MHz, stud-mount (ACC-101VLB); VHF Antenna, 5-1/2", 162-174 MHz, stud-mount (ACC-101VB); UHF Antenna, 3-1/2", 440-470 MHz, stud-mount (ACC-104UW); VHF Antenna, 6", stud-mount (CA-2506); UHF Antenna, 6" stud-mount (CA-5506)

Chargers: Vehicular dual slot / dual rate rapid charger (ACC-406); 6-Station universal gang charger (ACC-460); Charger cups for gang charger (ACC-463); Dual slot / dual rate desktop charger (QPA-1130); Single unit desktop charger (QPA-1135)

Audio: Ultra-lite headset with locking connector (ACC-615); Over-the-head noise-attenuating headset* (ACC-626); Behind-the-head noise-attenuating headset* (ACC-627); Ear hook speaker mic with P-T-T & low profile locking connector (ACC-712); Speaker microphone with low profile locking connector (ACC-713); Speaker microphone with locking connector (ACC-730); Speaker microphone with earphone jack & locking connector (ACC-731); Coil cord earphone, used with ACC-731 (QPA-1424); Ear speaker, used with ACC-713 (WTA-9F)

Carrying: Leather case with swivel (QPA-1491); Nylon case with belt clip (QPA-1495)

Signaling: Analog: DTMF / five-tone / two-tone ANI encoder (ANI-MA MAXON); Digital: GESTAR ANI encoder (ANI-MG MAXON); Digital: MDC-1200 / MDC-600 ANI encoder (ANI-MM MAXON); 2-Tone sequential decoder (SA-201); Rolling Code voice scrambler (TVS-2 MAXON); DTMF / Five-tone (Selcall) / 2-tone decoder with ANI (UD-1B MAXON); Speech inversion scrambler (on 3676 Hz, VPU-11 MAXON); Speech inversion scrambler (VPU-15 MAXON)

Adaptor: 2-Pin to 12-pin accessory adaptor (ACC-501)

* Requires ACC-501 adaptor for use with SP-300 Series radios

For more information, contact:

Topaz3

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