Data Sheet

# EVX-S30 Portable Two-Way Radio

## Reliable communication. Subtle presence.

Keep your team aligned with the EVX-S30. Equip your staff with a sleek, compact radio engineered for professional, uninterrupted, shift-long connectivity.

MOTOROLA SOLUTIONS

# EVX-S30 portable two-way radio

Operational efficiency drops the moment communication fails. Don't let bulky, heavy radios slow your workforce down. Built with a slim, low-profile design, the EVX-S30 survives real-world drops and workplace spills to deliver the uninterrupted clarity your team needs to sustain productivity. Because it talks to your legacy analogue radios right out of the box, it protects your previous capital investments, letting you transition your fleet on your own budget while avoiding a forced, expensive overhaul. By keeping your staff reliably connected from the first call of the shift to the last, you eliminate costly downtime and maintain your business momentum.

## Focused audio

Filters out background static to deliver crisp, clear sound over loud workplace distractions and bustling environments by utilising advanced AMBE+2™ digital vocoder and 2W of audio power.

## Everyday durability

Protect your investments against drops, spills and downpours with a dust-tight, IP67-rated build that survives complete water submersion for up to 30 minutes, safeguarding your equipment with ease.

## Critical safety

Keep staff safe when performing independent tasks with built-in Lone Worker and Emergency Alerts, turning individual radios into a vital safety tool when an emergency arises.

## Structured communication

Supporting 256 channels and 16 groups, this expansive capacity allows you to structure distinct teams across your entire facility, eliminating cross-talk and channel congestion.

# Features

| GENERAL |
| --- |
| Water Submersible and Dust Proof (IP67) |
| Channel capacity:<br>• 256 Channels / 16 Groups |
| 4 Programmable Buttons |
| 8 Character Alphanumeric Display |
| Safety Features:<br>• Lone Worker Alert<br>• Emergency Alert |
| Multiple Scan Options |
| Better Radio Call Quality with AMBE+2™ Vocoder |
| Battery Status Indicator (low battery alert) |
| Battery Saver |
| Busy Channel Lock Out (BCLO) |
| Time Out Timer |
| Keypad Lock |
| AF Minimum Volume |
| Auto Power Off |
| Escalating Alerts |
| Low Power |
| Whisper Mode |
| RSSI indicator |
| VOX (compatible headset required) |

| ANALOGUE MODE |
| --- |
| Busy Tone Lock Out (BTLO) |
| Auto Range Transponding System (ARTS™) |
| Voice Inversion Encryption |

| DIGITAL MODE |
| --- |
| Direct Mode |
| Transmit Interrupt |
| Site Search |
| Message Control and Privacy |
| Text Message |
| All, Group and Private Call |
| Basic and Enhanced Privacy |
| Radio Check |
| Radio Stun / Revive |
| Remote Monitor (decode) |
| Call Alert |
| Call History |
| Simplex Only and Repeater Capable Encryption |
| Emergency |
| Radio Enable / Disable |
| Scan Options:<br>• Scan (Mixed Mode - Analogue / Digital Channels)<br>• Scan (Operator Selectable On / Off) |

| SIGNALLING |
| --- |
| MDC-1200® ANI Encode<br>• MDC-1200 ANI<br>• MDC-1200 Call Alert<br>• MDC-1200 Selcall<br>• MDC-1200 Radio Check<br>• MDC-1200 Stun / Revive |
| CTCSS / DCS encode and decode |
| 2-Tone Encode / Decode |
| 5-Tone Encode / Decode |
| Stun / Kill / Revive (5-Tone and DTMF Pager) |
| DTMF Encode / Decode |
| DTMF ANI |
| DTMF paging |
| DTMF Speed Dial |

# Specifications

| GENERAL | |
|---|---|
| Frequency | 403 - 480 MHz |
| Typical RF output<br>Digital<br>Analogue | <br>3 W / 2 W / 1 W / 0.5 W<br>2 W / 1 W / 0.5 W |
| Channel capacity | 256 |
| Channel spacing[1] | 12.5 / 25.0 kHz |
| Display | 8 Character Alphanumeric |
| Programmable buttons | 4 (Front: 3, Side: 1) |
| Dimension (H x W x D) with battery | 91 x 55 x 31.5mm |
| Weight with battery, antenna, belt clip | 215 g |
| Power supply (nominal) | 3.8 V |
| Battery life (analogue / digital)[1] | 11 hours / 12 hours |
| **TRANSMITTER** | |
| FM Modulation | 12.5kHz: 11K0F3E<br>25.0kHz: 16K0F3E |
| 4FSK digital modulation | 12.5 kHz Data: 7K60F1D and 7K60FXD<br>12.5 kHz Voice: 7K60F1E and 7K60FXE<br>Combination: 7K60F1W |
| Digital protocol | ETSI TS 102 361 -1, -2, -3 |
| Conducted / radiated spurious emissions (ETSI) | < -36 dBm for < 1 GHz<br>< -30 dBm for > 1 GHz |
| Adjacent channel power (ETSI) | > 60 dB @ 12.5 kHz<br>> 70 dB @ 25 kHz |
| Frequency stability | ± 1.5 ppm |
| Modulation limiting (ETSI) | ± 2.5 kHz @ 12.5 kHz<br>± 5.0 kHz @ 25 kHz |
| **AUDIO** | |
| Audio Output Power (Rated / Max) | 1.5 W / 2 W |
| Audio Distortion at rated power | 3% (typical) |
| Hum and Noise | -40 dB @ 12.5 kHz<br>-45 dB @ 25 kHz |
| Digital Vocoder Type | AMBE+2™ |

| RECEIVER | |
|---|---|
| Analogue Sensitivity (12dB SINAD) | 0.20 µV (typical) |
| Digital Sensitivity (5% BER) | 0.20 µV (typical) |
| Conducted / Radiated Spurious Emissions (ETSI) | < -57 dBm for < 1 GHz<br>< -47 dBm for > 1 GHz |
| Intermodulation (ETSI) | > 65 dB |
| Adjacent Channel Selectivity (ETSI)-1T | > 60 dB @ 12.5 kHz<br>> 70 dB @ 25 kHz |
| Spurious Rejection (ETSI) | > 70 dB |
| Frequency stability | ± 1.5 ppm |
| **ENVIRONMENTAL** | |
| Operating Temperature[2] | -30 °C to 60 °C |
| Storage Temperature | -40 °C to 85 °C |
| Thermal Shock | Per MIL-STD 810C, D, E, F, G, H |
| Humidity | Per MIL-STD 810C, D, E, F, G, H |
| Electrostatic discharge | IEC 61000-4-2 Level 4 |
| Dust and water intrusion | IEC60529 IP67 |
| Salt fog | Per MIL-STD 810C, D, E, F, G, H |

[1] Typical battery life, 5/5/90 profile at maximum transmit power. Actual observed runtimes may vary

[2] Temperature listed are for radio specification. Li-Ion battery discharge: -20°C to +60°C

## MILITARY STANDARDS (MIL-STD 810)

| | MIL-STD 810C | | MIL-STD 810D | | MIL-STD 810E | | MIL-STD 810F | | MIL-STD 810G | | MIL-STD 810H | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | METHOD | PROCEDURE | METHOD | PROCEDURE | METHOD | PROCEDURE | METHOD | PROCEDURE | METHOD | PROCEDURE | METHOD | PROCEDURE |
| Low pressure | 500.1 | I | 500.2 | II | 500.3 | II | 500.4 | II | 500.6 | II | 500.6 | II |
| High temp | 501.1 | I, II | 501.2 | I/A1, II/A1 | 501.3 | I/A1, II/A1 | 501.4 | I/Hot, II/Hot | 501.5 | I/A1, II/A2 | 501.7 | I/A1, II/A1 |
| Low temp | 502.1 | I | 502.2 | I, II | 502.3 | I, II | 502.4 | I, II | 502.5 | I, II | 502.7 | I, II |
| Temp shock | 503.1 | I | 503.2 | A1/C3 | 503.3 | A1/C3 | 503.4 | I | 503.5 | I/C | 503.7 | I/C |
| Solar radiation | 505.1 | II | 505.2 | I/A1 | 505.3 | I/A1 | 505.4 | I/A1 | 505.5 | I/A1 | 505.7 | I/A1 |
| Rain | 506.1 | I, II | 506.2 | I, II | 506.3 | I, II | 506.4 | I, III | 506.5 | I, III | 506.6 | I, III |
| Humidity | 507.1 | II | 507.2 | II | 507.3 | II | 507.4 | - | 507.5 | II/Aggravated | 507.6 | II/Aggravated |
| Salt fog | 509.1 | I | 509.2 | I | 509.3 | I | 509.4 | - | 509.5 | - | 509.7 | - |
| Blowing dust & sand | 510.1 | I / - | 510.2 | I, II | 510.3 | I, II | 510.4 | I, II | 510.6 | I, II | 510.7 | I, II |
| Vibration | 514.2 | VIII/F, W | 514.3 | I/10, II/3 | 514.4 | I/10, II/3 | 514.5 | I/24, II/5 | 514.6 | I/24, II/5 | 514.8 | I/24, II/5 |
| Shock | 516.2 | I, II | 516.3 | I, IV | 516.4 | I, IV | 516.5 | I, IV | 516.7 | I, IV | 516.8 | I, IV |

To learn more, visit:
**www.motorolasolutions.com/evx-s30**

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