

SD-171EX 5/1W VHF (146-174 MHz)

SD-174EX 5/1W UHF (450-490 MHz)



- 5/1 Watt
- LED Status Indicator
- 16 Channels (Dip Switch Select)
- 2-Tone Decode
- DE-9 Pin Male Connector
- TX Time Out Timer
- 12.5/25 kHz Channel Spacing
- Carrier Detect
- Busy Channel Lockout
- CTCSS/DCS Encode/Decode
- POCSAG Protocol Optional
- Squelch - Software Aligned

Applications

Water/Waste Treatment Plants
Oil and Gas Field SCADA
Security/Alarm Systems
Gate Systems
Remote Controls
Sign Control
Automatic Vehicle Location
Murphy/Kill Switches
Weather Monitoring
Irrigation Systems
Emergency Call Boxes
Low Power Repeaters

The Maxon SD-170EX Series of radios are durable, reliable and designed to meet the needs for a variety of wireless applications in VHF or UHF frequencies.

The modules incorporate the most requested mechanical footprint, DE-9 male connector, and BNC antenna connection. Adjustable transmit power settings provides the power needed on any job and the tri-color LED indicator gives instant on-sight status of the radios operation. The die cast aluminum cabinet/lid provides resistance to RF interference; and gives exceptional environmental durability in the most extreme conditions. The SD-170EX can also be configured with POCSAG for paging applications.

Whether implementing a new system or installing into an existing system, the Maxon family of data telemetry radios have been the choice of OEM and end-users worldwide for over 35 years.

SPECIFICATIONS

GENERAL

SD-171EX	146-174 MHz
SD-174EX	450-490 MHz
Channel Spacing	12.5/25 kHz
PLL Channel Step	5, 6.25 kHz
Power Requirement	9-18 V DC, 12V nominal
Current Drain	Tx Hi: 2.0, Tx Lo: 1A, Stdy 65mA
Operating Temperature	-22° to 140° F (-30° to 60° C)
Dimensions (L/W/H)	4.6 x 2.4 x 1.4" (117x62x35 mm)
Weight	9.4 oz. (267 g.)
Lock Time	<10ms
LED Status	Green - Receive/Decode Red - Transmit Yellow - Busy
TX Duty Cycle	35% @ Temp Range Listed

TRANSMITTER

Output Power	5/1 Watt Programmable
FM Hum and Noise	40dB (12.5 kHz), 40dB (25 kHz)
Modulation Sensitivity	100mV RMS (60% peak dev)
Spurious Emissions	-36dBm
Frequency Deviation	±2.5, Min. ±1.9 kHz (12.5 kHz) ±5.0, Min. ±3.8 kHz (25 kHz)
Adj. Channel Power	70dB (25 kHz), 60dB (12.5 kHz)
Audio Response	+1, -3dB from 6dB per octave pre-emphasis and characteristic 300 ~ 3000 Hz

RECEIVER

Sensitivity	.30µV (12.5 kHz), 0.28µV (25 kHz)
Selectivity	65dB (12.5 kHz), 70dB (25 kHz)
Intermodulation	-70dB
Spurious Emissions	-57dB (9kHz-1GHz), -47dB (1GHz-4GHz)
RX Hum/Noise	-40dB (12.5 kHz), 40dB (25 kHz)
Spurious/Harmonic	65dB
Response Time	<16ms
Squelch Attack Time	<20/40 ms (RSSI/Analog) <10/30ms (RSSI/Analog), ±20dB
Squelch Decay Time	5 ms Min., 20 ms Max
Audio Output Power	0.5 Watt

PACKAGE INCLUDES:

Radio Only

Specifications are subject to change without notice

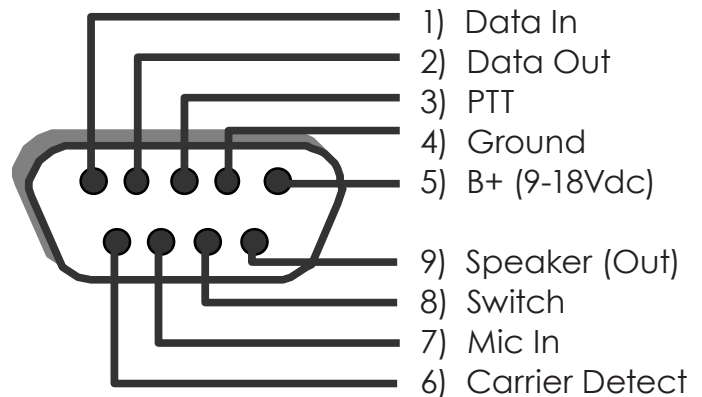
ACCESSORIES



ACCESSORY OPTIONS

BNC 6" Antenna VHF/UHF
PC Programming Software and Cable (USB)
Extender Board for Service and Alignment
Heat Sink

DE-9 Pin Male Connector



Approvals	FCC	Industry Canada
SD-171EX	RXUSD-171E	153B-SD-171E
SD-174EX	RXUSD-174E	153B-SD-174E

RoHS
2002/95/EC



Manufactured to ISO-9002:2000
quality standard.

NOTE: Some features indicated by specifications listed are prohibited by FCC rule and are not available on models sold in the U.S. or its territories.

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