



MODEL 251

Parabolic Pinpointer



Ultrasonic Precision for Powerline Diagnostics

The Model 251 Ultrasonic Detector delivers fast, precise detection of arcing and corona on energized powerlines. Its rugged, one-piece design integrates a high-sensitivity directional ultrasonic sensor, 18-inch parabolic reflector, tuned receiver, and precision sight to accurately isolate airborne ultrasonic emissions produced by deteriorating electrical hardware. Independent gain control allows technicians to optimize sensitivity for varying field conditions, while the integrated analog meter, LED activity indicator, and audible output provide immediate confirmation for confident fault identification.

Designed to complement Radar Engineers RF locating instruments such as the Model 243 and M-331, the Model 251 serves as the final confirmation tool in the diagnostic workflow. After RF detection narrows the search to the affected pole, the 251 pinpoints the exact sparking component, allowing technicians to confirm the true fault quickly and confidently. By combining rapid RF detection with precise ultrasonic pinpointing, the Model 251 helps utilities locate faults more efficiently, confirm the exact source of arcing, and address developing equipment problems before they lead to outages or costly repairs.

SPECIFICATIONS	
OPERATING FREQUENCY	ULTRASONIC
DETECTION RANGE	UP TO 50 FT TYPICAL FOR MODERATE ARCING; GREATER FOR STRONG SOURCES
TRANSDUCER	HIGH-SENSITIVITY ULTRASONIC TRANSDUCER
REFLECTOR DIAMETER	18" (46 CM)
INDICATORS	SIGNAL-STRENGTH METER AND LED ACTIVITY INDICATOR
GAIN CONTROL	HIGH/LOW RANGE SELECTOR WITH FINE-TUNE ADJUSTMENT
CONSTRUCTION	MOLDED PARABOLIC DISH WITH WEATHER-SEALED ELECTRONICS
AUDIO OUTPUT	BUILT-IN SPEAKER AND 3.5 MM HEADPHONE JACK
POWER SOURCE	9V ALKALINE BATTERY (8+ HOURS OPERATION)
DIMENSIONS	18" (DIAMETER) x 6" (DEPTH)
WEIGHT	3 LB (1.36 KG)

Product Features

Directional Ultrasonic Detection

Pinpoints the exact source of arcing and corona on energized powerlines.

Adjustable Gain Control

Optimizes sensitivity while minimizing ambient interference.

Precision Slotted Sight

Enables accurate alignment for rapid fault localization.

18-Inch Parabolic Reflector

Provides exceptional directional sensitivity and extended detection range.

Integrated Analog Meter & LED

Provides immediate visual confirmation of detected ultrasonic activity.

Rugged One-Piece Design

Built for reliable performance in demanding utility environments.



Radar Engineers Inc.

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