

Signal Jamming Detector

TD-AJV4

A standalone alarm that detects RF jammers and reports to the monitoring center on its own, without going through the panel.

**telecom
design**

Criminals use signal jammers to cut wireless sensors and cellular communicators off from the panel before a break-in. The AJV4 from Telecom Design listens to the radio spectrum around the property, recognizes a jamming attempt in under 30 seconds, and sends the alarm over a path the jammer cannot block. It installs on any system, with any panel, in minutes.



Jamming Detection

AI Engine trained on more than ten years of field data

Independent Reporting

Alarms the monitoring center with no panel in the loop

Universal Compatibility

No connection to the existing panel or sensors

Temperature & Humidity

Live readings directly on the display

Air Quality

Indoor air quality indicator for comfort

Manual SOS

One-press alarm button on the front

How it Works

The TD-AJV4 continuously scans the bands a jammer would attack: cellular, the 915 MHz alarm band, Wi-Fi, and Bluetooth. Instead of reacting to a loss of signal, the detection engine reads the shape of the interference and tells a targeted frequency jammer apart from a wideband noise jammer.

Once jamming is confirmed, the unit picks the communication path the interference is least able to block. Ultra narrowband transmission pushes through jammer noise with a high power density, and spread spectrum transmission scatters the signal across a wide band so a targeted jammer cannot follow it. Connectivity to the cloud is built in and establishes itself when the batteries go in.



Ready to order?

Scan to shop the TD-AJV4 at SS&Si Dealer Network or visit go.ssandsi.com/ajv4

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Detection

Method	AI and machine learning engine scanning an extended radio spectrum, with countermeasures
Bands monitored	Cellular, 915 MHz alarm band, Wi-Fi, Bluetooth
Detection and alarm time	Under 30 seconds
Monitoring range	Up to ~165 ft (50 m)
Threat analysis	Differentiates targeted frequency jammers from wideband noise jammers and selects the bypass strategy to match
Sensitivity	Long-range algorithm identifies commercial jammers before they reach critical proximity

Communications

Alarm band	RF unlicensed alarm bands, 902 to 928 MHz
Networks	LTE-M, NB-IoT, BLE, Sigfox, LoRaWAN
Resilience	Ultra narrowband (UNB) and direct sequence spread spectrum (DSSS)
Supervision	Keep alive signal, battery level monitoring

Monitoring center interface

Interface	Cloud to cloud API, or a standard interface such as SIA or MASTerMind
Service	Low-cost connectivity and cloud dashboard

Environmental sensing

Measurements	Temperature, humidity, air quality
Display	LCD showing protection status, readings, signal and battery

Installation

Type	Standalone, wall mounted
Wiring	None, for data or power
Panel connection	None required; compatible with any security system
Tamper	Wall and battery covery
Manual alarm	SOS button

Power

Batteries	6 x AA alkaline, not included
Battery life	More than 4 years
Replacement	User replacement
Consumption	Ultra low power

Physical

Manufacturer	Telecom Design
Dimensions	5.4 x 3 x 1.1 in (14 x 7.5 x 3 cm)
Weight	6 oz (163 g) without batteries; 11 oz (300g) with batteries
Operating temp	14 to 122 °F (-10 to 50 °C)
Ingress rating	IP4X

Certifications & patents

Certifications	FCC, ISED
Patents	EP3477611, EP3716242, FR3137785, EP4521376, US19/515,122, FR3161500, WO2025/223818, FR2507938, US19/552,031

