

# Wireless Cigarette Smoke, Vaping and Bullying Alarm Sensor

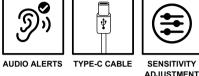


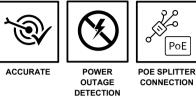
## DESCRIPTION

The WLRC-VAPE is an indoor sensor that can detect cigarette smoke, vape, and noise, along with additional features like anti-tamper protection, power outage detection, sensitivity adjustment, customizable audio alerts, and PoE splitter connection. The new WLRC-VAPE makes indoor monitoring easier and more flexible than ever before.









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**KEY FEATURES** 

- Powered by 12vDC 1 amp adapter
- Battery backup: 2\* AAA 1.5V batteries
- Highly accuracy up to 90% smoke / vape detection (must follow range calculation)
- Adjustable sensitivity for smoke / noise detection
- Custom audio alerts upload able for various detection alerts (Type C cable)
- IP5X weather proof rating (not waterproof)
- LoraWAN Class C wireless communication module

#### BENEFITS OF WATCHNET VAPE AND SOUND DETECTOR

- LoraWAN technology for connectivity (No need to plug in many devices to the corporate network)
- 12V DC powered (Save money on POE switches and wiring)
- Battery backup up to 2 hours (3 X AAA cells required)
- Power Failure Detection
- Tamper Detection
- Easy to relocate within the premises
- Detection of sound (With adjustable sensitivity)
- Detection of Vape and Smoke. (Adjustable sensitivity)
- Custom sound file up loadable for vaping, tampering, and sound detection
- Can link to external sounder to generate alarm (Security office. / Central office.)
- Instant PoP up of the location of smoke and sound on a computer monitor
- Mobile APP notification and Alert
- Remote sensitivity adjustment
- Data stored on the cloud for up to one year included

#### APPLICATION

- · Residential buildings, hotels, schools, hospitals, banks, office buildings, libraries, museums, meeting rooms, airports, and stations
- Toilets, elevators, and storage rooms

# MULTI SENSOR SPECIFICATIONS

ELECTRIC	
Input Power	DC12V/1A (Power adapter)
Power Consumption	Monitoring: <100mA; Sounding alarm: <200mA
Battery Backup	2* 1.5V AAA alkaline batteries
Receiving Current	11mA @3.3V
Transmitting Current	120mA @3.3V

# VAPE AND SMOKE DETECTION

Operating Voltage	5VDC
Operating Current	100mA (typical value)
Comprehensive Response Time	≤10 seconds

VIBRATION DETECTION	
Туре	Omnidirectional ball switch
Voltage	<6V
Current	2uA–10mA
Insulation Resistance	>10MΩ
Trigger Rate	100% (amplitude > 1 mm, frequency > 20 Hz)
Trigger Frequency	>50Hz

NOISE DETECTION	
Туре	Condenser microphone
Direction	Omnidirectional
Sensitivity	-36 ± 3db
Frequency	20 – 10000Hz
Current Consumption (Max.)	0.5mA
Operating Temperature	-20 – 70 °C
Dimensions	φ9.7 x 6.5 mm

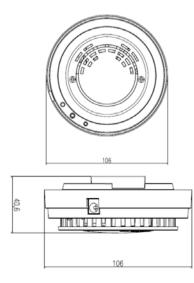
# **GENERAL SPECIFICATIONS**

TESTING RESULTS OF NOISE SENSOR			
Noise Type	Detectable decibel value (set sensor dB to the lowest)	Detectable decibel value (set sensor dB to the highest)	
100Hz	90dB	109dB	
1KHz	100dB	>110dB	
10KHz	103dB	>110dB	
Knocking Sound	73dB	92dB	
Music	85dB	>110dB	

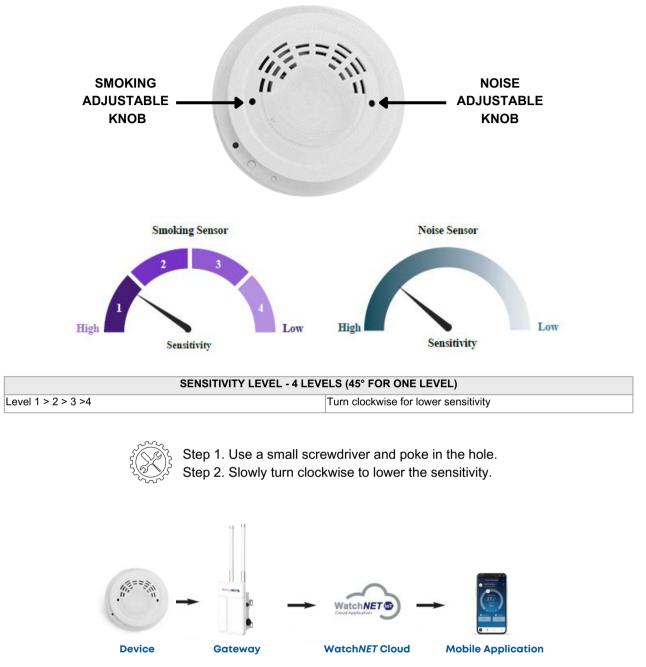
FREQUENCY		
Frequency Range	863MHz-928MHz 470MHz-510MHz	
TX Power	US915 20dbm AS923 16dbm AU915 20dbm CN470 19.15dbm EU868 16dbm KR920 14dbm IN865 20dbm	
Rx Sensitivity	-136dBm (LoRa, Spreading Factor = 12, Bit Rate = 293bps ) -121dBm (FSK, Frequency deviation = 5kHz, Bit Rat e=1.2kbps)	
Antenna Type	Build-in internal antenna	
Communication Range	up to 5 km (line of sight) Note: The communication distance depends on the environment	
Data Transfer Rate	LoRa: 0.3kbps – 50kbps FSK: 1.2kbps – 300kbps (Note: One modulation is required.)	
Modulation	LoRa / FSK	
Available Frequency	EU863-870, US902-928, AU915-928, KR920-923, AS923-1, AS923-2, AS923-3, IN865-867, CN470-510	

AUDIO ALERTS	
Audio alerts	dB
Smoking detection	53dB
Noise detection	62dB
Anti-tamper detection	62dB

PHYSICAL	
Dimensions	Ø106 mm x 40.6 mm
Length of Adapter Cable	1.5m
Ambient Temperature Range	-10°C to 55°C
Ambient Humidity Range	<90%RH (no condensation)
Mounting	Ceiling Mount (8' - 10')



## SENSITIVITY ADJUSTMENT



\*Cloud connectivity with a monthly subscription is needed for all functions to be monitored remotely

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