Honeywell Transmission Risk Air Monitor (SKU: HTRAM-V2-W) Wi-Fi Specification

Honeywell Transmission Risk Air Monitor (SKU: HTRAM-V2-W) is a Wi-Fi-enabled IoT edge device. The monitor will work with most standard Wi-Fi networks. The device price has 1st year software license included. Additional years of software licenses need to be purchased separately.

Honeywell Transmission Risk Air Monitor Wi-Fi Specification

Wi-Fi Standards   802.11 b/g/n (2.4GHz Single-Band)

Wi-Fi 802.11b 2.4GHz

Specification	IEEE802.11b
Mode	DSSS / CCK
Channel Frequency	2412 - 2472MHz
Data Rates	1, 2, 5.5, 11Mbps

Wi-Fi 802.11g 2.4GHz

Specification	IEEE802.11g
Mode	OFDM
Channel Frequency	2412 - 2472MHz
Data Rates	6, 9, 12, 18, 24, 36, 48, 54Mbps

Wi-Fi 802.11n 2.4GHz

Specification	IEEE802.11n
Mode	OFDM
Channel Frequency	2412 - 2472MHz
Data Rates	6.5, 13, 19.5, 26, 39, 52, 58.5, 65Mbps

Wi-Fi Modes   Station Mode
Number of TCP/UDP Sockets   4-16
Number of Concurrent SSL Connections   2-4
Wi-Fi Security   WPA/WPA2-PSK mixed TKIP/AES
Application Security   TLS1.2
Application Ports   80, 433

Recommended settings of Wi-Fi network

Here are the recommended Wi-Fi network and router settings for Honeywell Transmission Risk Air Monitor (HTRAM).

- 802.11 b/g/n with 2.4Ghz.
- Wi-Fi router's DHCP service should be enabled.
- Encryption setting – WPA/WPA2-PSK mixed TKIP/AES. WEP is not compatible with HTRAM.
- Network Name (SSID) – minimum length is 1, the maximum length of SSID is 32. Any ASCII characters except comma and ESC can be used in SSID.
- Do not hide SSID.
- Password – minimum length is 8 characters, and maximum length is 63. Any ASCII characters except comma and ESC can be used in Password.

Wi-Fi networks are not recommended

- **Mobile hotspots** can have issues with bandwidth, availability, data limits, and usage fees. Honeywell Transmission Risk Air Monitor works best with a reliable and continuous internet connection to ensure the user can monitor the environment continuously.
- **Guest networks** owned by another person can cause issues, even if you have permission from the owner. For instance, you might not be able to troubleshoot a Wi-Fi or internet issue because you can't access the router settings.

Incompatible Wi-Fi networks

If you are unable to connect to a Wi-Fi network, check the following:

- **Captive portal networks** HTRAM does not work with captive portal networks, common in airports, hotels, internet cafes, and coffee shops. On these networks, you must sign in on a web page and sometimes accept terms and conditions before connecting.
- **Enterprise networks** in businesses such as 802.1x/RADIUS networks are not compatible with HTRAM.
- **5GHz networks** are incompatible with HTRAM. It only supports 2.4GHz Wi-Fi networks.
- **Public and Open Networks without password.** For security reasons, HTRAM will not connect to an unsecured network. Don't use someone else's network without their permission.

Appendix

For the organizations who want to use Honeywell Transmission Risk Air Monitor through a Wi-Fi connection, it is recommended that the Honeywell Transmission Risk Air Monitors are connected to a "Specific Use Network" instead of the "General Purpose Network."

Usually the "General Purpose Network" is the collection of core communication networks typically used throughout the business. This includes the site network segment containing the general use corporate workstations and printers and the WAN (Wide Area Network), which connects all the sites in different locations.

The "Specific Use Network," on the other hand, is a network segment that is being used for a purpose beyond what is "general use". This could include, but is not limited to, Process Control Networks used in manufacturing, Building Automation Networks used for building security equipment (CCTV/ Access Controls), Lab / Engineering networks used for testing products, development networks used for research and development, and other networks isolated for compliance or regulatory reasons. Sometimes these networks are connected to the "General Purpose Network," and sometimes they are completely isolated. As the name suggests, these networks are present for a particular use-case. They are designed appropriately to ensure those business needs are being met while maintaining a safe and secure environment for any devices within it and those outside it.

Honeywell Transmission Risk Air Monitor is the product for a specific use-case, making the users' environment more safe and secure. Thus, we strongly suggest customers use a specific network to connect the devices to the cloud.