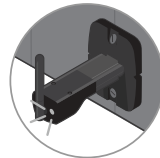


NOTE: The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

Haven FCC ID : 2ANU9HAVENA		FC
Haven IC: 23327-HAVENA		
	WARNING CLASS 1 LASER PRODUCT	

TZOA HAVEN

Operational Description



PRODUCT DESCRIPTION

Haven is an indoor air quality monitoring device designed to be used as a stand-alone device in residential and commercial HVAC systems. It measures the physical properties and composition of the air stream using particulate and gas phase sensors including an optical particle counter, temperature, humidity, pressure and VOC sensors. The device contains a certified third party serial to WiFi module which uses an 802.11 transceiver module to transmit data to an access point such as a consumer router. The device uses an external antenna to maximize the distance to the duct material in case the duct is metal. The antenna is connected to the WiFi module using the antenna's coaxial cable which is terminated with a U.FL connector.

Haven uses its sensors to monitor the air in order to detect different types of air pollution. It connects to WiFi network to allow this data to be pushed to the cloud and report results. It sends telemetry at regular intervals, but the effective data rate is low.

For information on how to install and operate Haven as a component in HVAC system please contact TZOA Inc.

WIRELESS DESCRIPTION

This device contains a NINA-W101 WiFi module operating in the 2.4GHz frequency spectrum with throughput of up to 54Mbps OFDM. The device contains a 2 dBi whip antenna with a U.FL connector terminated coaxial cable which is used to connect to the module.

Regulatory Compliance



NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- *Reorient or relocate the receiving antenna.*
- *Increase the separation between the equipment and receiver.*
- *Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
- *Consult the dealer or an experienced radio / TV technician for help.*

This device has been tested and found to comply with FCC and ICSED requirements for RF Exposure when operated with at least 20cm separation from the antenna.

TZOA is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1) l'appareil ne doit pas produire de brouillage;
- 2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.