

thiamis

by airthinx[®]

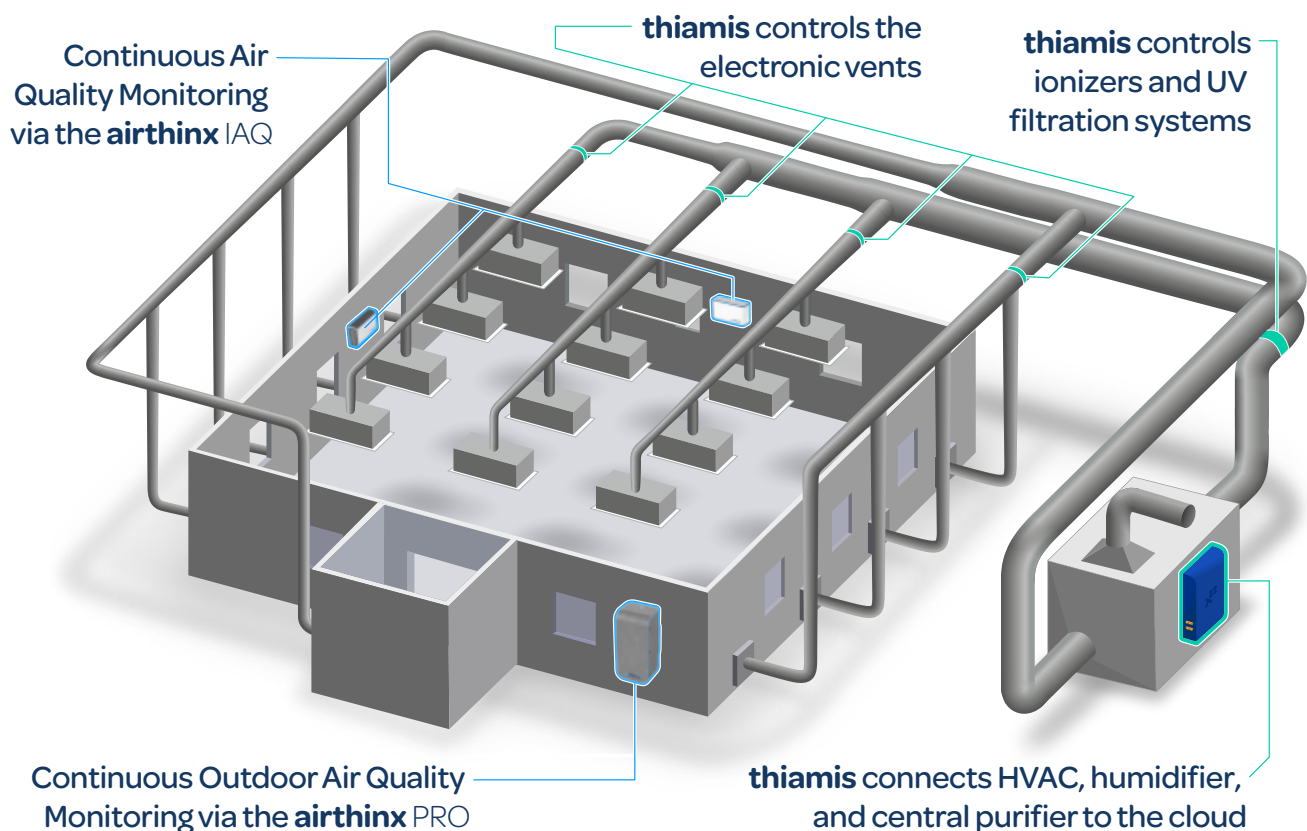
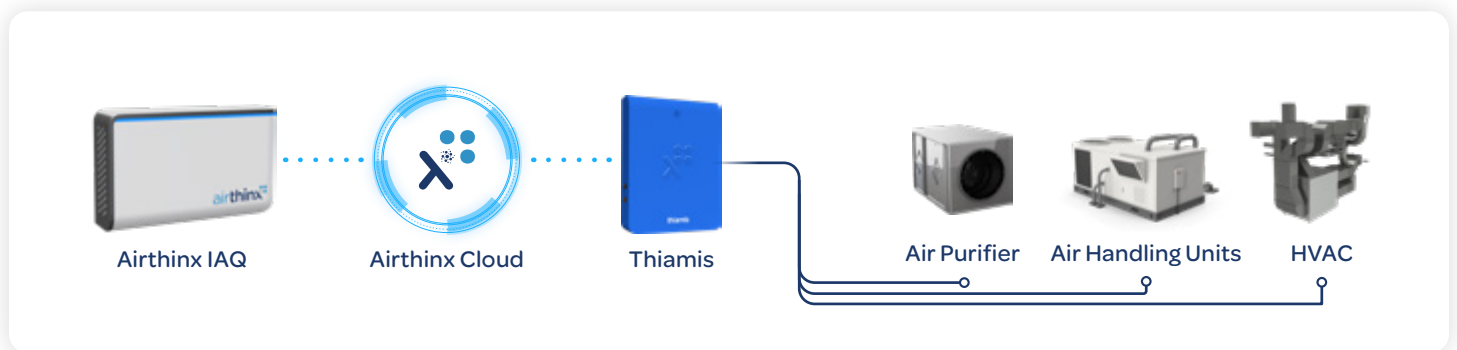


airthin[®]x

Complete Building Control

The Thiamis can support building system control and automated remediation by connecting to the relevant mechanical building systems. The building systems are controlled by the Airthinx Operating System (Airthinx OS), which automatically activates devices as necessary, based on the real-time air quality data gathered on-site.

The Thiamis enables a seamless integration of your building to the Airthinx platform. Connect building systems to see all your data in one place, in a historical view that allows you to compare building operation, indoor air quality, and efficiency. In doing this, building owners can optimize all systems to operate at the level and length of time needed to achieve on-premises infection prevention control and increased health & productivity for occupants, while also optimizing operational efficiency & cost savings.



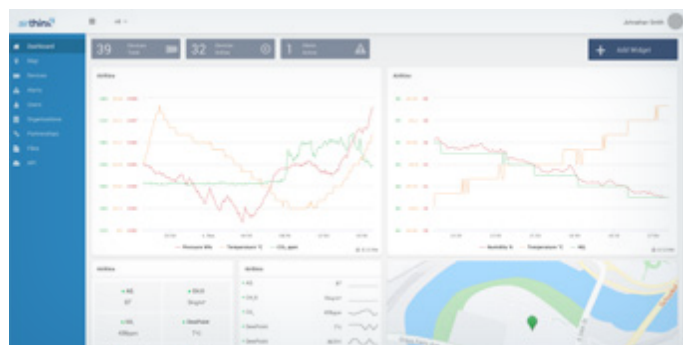


System Monitoring

Thiamis offers a unique opportunity to connect all mechanical systems to the Airthinx system, where everything can be monitored in real-time. All connected systems can then be optimized to operate at the level and length of time needed to achieve increased health & productivity, while also improving operational efficiency & cost savings. Thiamis is designed with scalability and security in mind, and that is why it has been adapted by enterprises and government organizations around the world to provide oversight monitoring for health, safety, and compliance purposes.

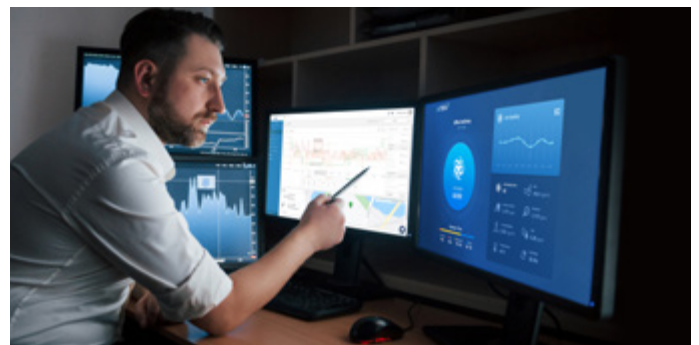
IoT Data Center

Data is collected continuously and immediately available on the Airthinx console as raw data, graphs, and tables. It is accessible on our advanced web console and the Airthinx mobile app. Data can also be connected to external systems in order to be used by governments, BMS/BAS, and other 3rd party services.



Research & Development

Airthinx's patented solution uses artificial intelligence (AI) and machine learning (ML) to manage systems and processes. The solution optimizes systems to function based on data acquired by the airthinx monitoring devices. Users can even turn existing building systems into smart, AI & ML powered solutions for air quality.

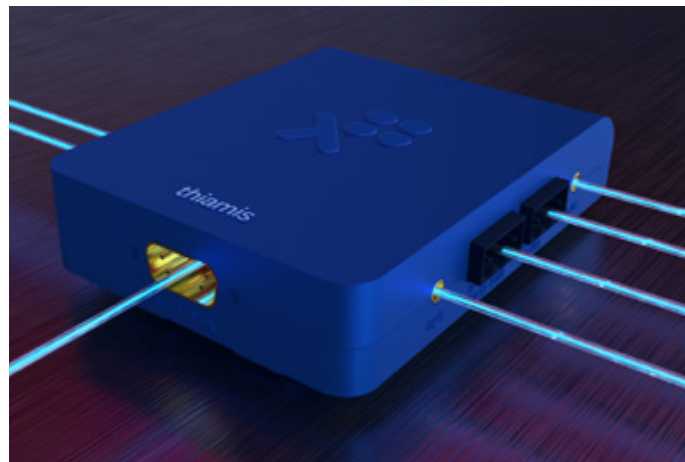


Connect Any Sensor

Thiamis can also be used to connect 3rd party sensors to the Airthinx Platform. The Thiamis name has been known by industry professionals for years, and has been used to connect industrial sensor to the cloud. By connecting a 3rd party sensor, the Thiamis offers new capabilities including: system control, data logging, digital processing, global positioning, and telemetry. All of this is packed into one compact and purpose-built device, making it the most advanced and cost effective solution in the IoT market.

Hardware Connectivity

The Thiamis includes multiple ports: RS-485, RS-232 (3-multiplexed), SDI-12, 2 USB-C ports, and expansion ports for Analog and Digital I/Os, allowing users to connect virtually any 3rd party sensor. By connecting a 3rd party sensor, you eliminate the need to manually retrieve monitoring data, as all data will be sent wirelessly over a secure cellular or wifi connection to the Airthinx Cloud.



Device Compatibility

Thiamis has been used alongside many industrial sensors, offering professionals seamless access to their data. A few examples are:

- TSI Dustrak
- MiniRae 3000
- Alphasense
- Davis Vantage Pro
- Lufft WS500
- Eureka Manta 2
- QuestTemp
- And More!



Product Specifications

Communications

Cellular	4G LTE / 3G / 2G
WiFi	802.11 b/g/n
Bluetooth	Bluetooth 4.0
Mesh	Zigbee
GPS	A-GPS, Sensitivity > -165dBm, 3m Accuracy
Antenna	Built-in (2G/ 3G / 4G, GPS, Zigbee, Bluetooth) External MCX Female (Cellular and GPS) <i>[Optional]</i>
SIM Card	Built-in

Data Logging

Digital Ports	RS-485, RS-232 (3-multiplexed), SDI-12, 2xUSB-C
Delta Port	Expansion port for Analog and Digital I/Os
Wireless Ports	Zigbee, Bluetooth and WiFi
Clock	Real-time
Protocols	ASCII, ModBUS, SDI-12, UMB and more
Memory	Built-in

Sensors (built-in)

Temperature	Range	0° - 45° C
	Resolution	0.1 °C
	Maximum Error	± 0.5° C from 15° - 30° C
Humidity	Range	15 - 75% RH
	Resolution	0.1 %RH
	Maximum Error	± 2 %RH
Barometer	Range	300-1100 hPa
	Resolution	± 0.12 Pa
	Maximum Error	± 1.3 Pa

General

Input Voltage	12 VDC, USB-C
Power	0.6 Watt
Operating Temperature	-30 °C to 75 °C (-22 F to 167 F)
Certifications	CE, FCC, PTCRB