AXIS D6210 Air Quality Sensor

Seamlessly add indoor air quality monitoring to Axis devices

Manage your indoor environment with this air quality sensor. It works with selected Axis IP devices to detect vaping and smoking as well as various air pollutants such as particle matter (PM), carbon dioxide (CO_2), and more. It's possible to trigger an event whenever defined thresholds are breached. For instance, when the connected device is integrated with other devices, you can automate responses. It can be used to document compliance with indoor air quality regulations. Furthermore, portcast technology enables simple connection to Axis devices and makes it easy to add this sensor to existing systems without the need for additional IP addresses, switch ports, or power.

- > Measure indoor air quality (IAQ)
- > Detect vaping and smoking
- > Trigger automatic actions
- > Portcast enables simple connection to Axis devices
- > Adds enhanced functionality to selected Axis devices

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Sensors

Temperature
Range: -10 °C to 45 °C (14 °F to 113 °F)
Accuracy: ± 0.7 °C

Humidity
Range: 0 to 100 %RH
Accuracy: ± 6 %RH

Carbon dioxide (CO_2)
Range: 0 to 40000 ppm
Accuracy: 400 to 1000 ppm : ±(50 + 2.5 % m.v.[1]) ppm,
1001 to 2000 ppm : ±(50 + 3 % m.v.[1]) ppm,
2001 to 5000 ppm : ±(40 + 5 % m.v.[1]) ppm

Particle matter (PM1.0)
Range: 0 to 1000 µg/m³
Accuracy: 0 to 100 µg/m³ : ± 5 % m.v.[1]
Accuracy: 101 to 1000 µg/m³ : ± 10 % m.v.[1]

Particle matter (PM2.5)
Range: 0 to 1000 µg/m³
Accuracy: 0 to 100 µg/m³ : ± 5 % m.v. [1]
Accuracy: 101 to 1000 µg/m³ : ± 10 % m.v.[1]

Particle matter (PM4.0)
Range: 0 to 1000 µg/m³
Accuracy : ± 25 % m.v.[1]

Particle matter (PM10.0)
Range: 0 to 1000 µg/m³
Accuracy : ± 25 % m.v.[1]

Volatile organic compounds (VOC) index
Range: 0 to 500
Accuracy: ± 5 % m.v.[1]

Air quality index (AQI)
Range: 0 to 500
Accuracy: ± 10 % m.v.[1]

Nitric oxide and nitrogen dioxide (NO_x) index
Range: 0 to 500
Accuracy: ± 10 % m.v.[1]

Sampling frequency
1 sample/second[2]

Storage frequency
1 sample/30 seconds, up to 90 days[3]

Network

– with supported camera

Security
Password protection, IP address filtering, HTTPS[4] encryption, IEEE 802.1X[4] network access control, digest authentication, user access log, centralized certificate management

Network protocols
IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS[4], HTTP/2, TLS[4], QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf), IEEE 802.1X (EAP-TLS), IEEE 802.1AR

System integration

– with supported camera

Application Programming Interface
Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at *axis.com*
One-Click Connection

Analytics
Supported

Support for AXIS Camera Application Platform enabling installation of third-party applications, see *axis.com/acap*

Event triggers
Air quality monitor

1. *Of measured value*
2. *Applies to all the sensors in this product.*
3. *Applies to all the sensors in this product. The data is stored on the connected device.*
4. *This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (www.openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).*

Event actions
Flash I/O interface status LED
Flash I/O interface status LED while the rule is active

Approvals

Product markings
UL, CE, FCC, KC, VCCI, RCM

EMC
EN 55032 Class A, EN 55035, EN 61000–6–1, EN 61000–6–2
Australia/New Zealand: RCM AS/NZS CISPR 32 Class A
Canada: ICES-3(A)/NMB-3(A)
Japan: VCCI Class A
Korea: KS C 9835, KS C 9832 Class A
USA: FCC Part 15 Subpart B Class A

Safety
IEC/EN/UL 62368-1, CAN/CSA C22.2 No. 62368-1 ed.3, IEC/EN 60825-1 Class 1

Environment
IEC 60068–2–1, IEC 60068–2–2, IEC 60068–2–6, IEC 60068–2–14, IEC 60068–2–27, IEC 60068–2–78, IEC/EN 62262 IK08

General

Supported products
For a complete list of supported products, go to *axis.com/products/axis-d6210-air-quality-sensor*

Casing
Polycarbonate casing, encapsulated electronics
Color: White NCS S 1002-B

Mounting
Wall
Ceiling
Connected anywhere between switch and host device, up to 100 m (330 ft).

Display and indicators
Multi color status LED (red, amber, green, and blue).

Power
Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 2, 3 or IEEE 802.3at Type 2 Class 4.[5]
AXIS D6210 feeds power to the camera.
Typical power consumption: 2 W
Max power consumption: 2.2 W

Connectors
PoE in: RJ45 10BASE-T/100BASE-TX

PoE out: RJ45 10BASE-T/100BASE-TX

Operating conditions
Recommended temperature: 5 °C to 35 °C (41°F to 95 °F)[6]
Recommended humidity: 20 to 80% RH (non-condensing) [6]
Operating temperature: -10 °C to 45 °C (14 °F to 113 °F)
Operating humidity: 0 to 90% RH (non-condensing)

Storage conditions
Temperature: -40 °C to 65 °C (-40 °F to 149 °F)
Humidity: 0 to 80% RH (non-condensing)

Dimensions
For the overall product dimensions, see the dimension drawing in this datasheet.

Weight
225 g (0.5 lb)

Box content
AXIS D6210 Air Quality Sensor, installation guide

Optional accessories
AXIS TM3101 Pendant Wall Mount
AXIS TM4101 Pendant Kit
For more accessories, see *axis.com*

Video management software
With supported camera:
AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available at *axis.com/vms*

Warranty
5-year warranty, see *axis.com/warranty*

5. *This depends on the camera.*
6. *This is the optimal range to ensure the best performance. Exposure to conditions outside the recommended range may reduce sensor performance.*

Part numbers

Available at *axis.com/products/axis-d6210-air-quality-sensor#part-numbers*

Sustainability

50% recycled plastic