

## 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<sub>2</sub>), 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**



# AXIS D6210 Air Quality Sensor

## 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 <sub>2</sub> )	Range: 0 to 40000 ppm Accuracy: 400 to 1000 ppm : ±(50 + 2.5 % m.v. <sup>a</sup> ) ppm, 1001 to 2000 ppm : ±(50 + 3 % m.v. <sup>a</sup> ) ppm, 2001 to 5000 ppm : ±(40 + 5 % m.v. <sup>a</sup> ) ppm
Particle matter (PM1.0)	Range: 0 to 1000 µg/m <sup>3</sup> Accuracy: 0 to 100 µg/m <sup>3</sup> : ± 5 % m.v. <sup>a</sup> Accuracy: 101 to 1000 µg/m <sup>3</sup> : ± 10 % m.v. <sup>a</sup>
Particle matter (PM2.5)	Range: 0 to 1000 µg/m <sup>3</sup> Accuracy: 0 to 100 µg/m <sup>3</sup> : ± 5 % m.v. <sup>a</sup> Accuracy: 101 to 1000 µg/m <sup>3</sup> : ± 10 % m.v. <sup>a</sup>
Particle matter (PM4.0)	Range: 0 to 1000 µg/m <sup>3</sup> Accuracy : ± 25 % m.v. <sup>a</sup>
Particle matter (PM10.0)	Range: 0 to 1000 µg/m <sup>3</sup> Accuracy : ± 25 % m.v. <sup>a</sup>
Volatile organic compounds (VOC) index	Range: 0 to 500 Accuracy: ± 5 % m.v. <sup>a</sup>
Air quality index (AQI)	Range: 0 to 500 Accuracy: ± 10 % m.v. <sup>a</sup>
Nitric oxide and nitrogen dioxide (NO <sub>x</sub> ) index	Range: 0 to 500 Accuracy: ± 10 % m.v. <sup>a</sup>
Sampling frequency	1 sample/second <sup>b</sup>
Storage frequency	30 sample/second, up to 90 days <sup>c</sup>

## Network – with supported camera

Security	Password protection, IP address filtering, HTTPS <sup>d</sup> encryption, IEEE 802.1X <sup>d</sup> network access control, digest authentication, user access log, centralized certificate management
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS <sup>d</sup> , HTTP/2, TLS <sup>d</sup> , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP <sup>e</sup> , 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 <sup>®</sup> and AXIS Camera Application Platform; specifications at <a href="https://axis.com">axis.com</a> One-Click Connection
Analytics	Supported Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="https://axis.com/acap">axis.com/acap</a>
Event triggers	Air quality monitor
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
<b>General</b>	
Supported products	For a complete list of supported products, go to <a href="https://axis.com/products/axis-d6210-air-quality-sensor">axis.com/products/axis-d6210-air-quality-sensor</a>
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. <sup>c</sup> 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) <sup>f</sup> Recommended humidity: 20 to 80% RH (non-condensing) <sup>f</sup> 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 <a href="https://axis.com">axis.com</a>
Video management software	With supported camera: AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available at <a href="https://axis.com/vms">axis.com/vms</a>
Warranty	5-year warranty, see <a href="https://axis.com/warranty">axis.com/warranty</a>
Part numbers	Available at <a href="https://axis.com/products/axis-d6210-air-quality-sensor#part-numbers">axis.com/products/axis-d6210-air-quality-sensor#part-numbers</a>
Sustainability	50% recycled plastic

a. Of measured value

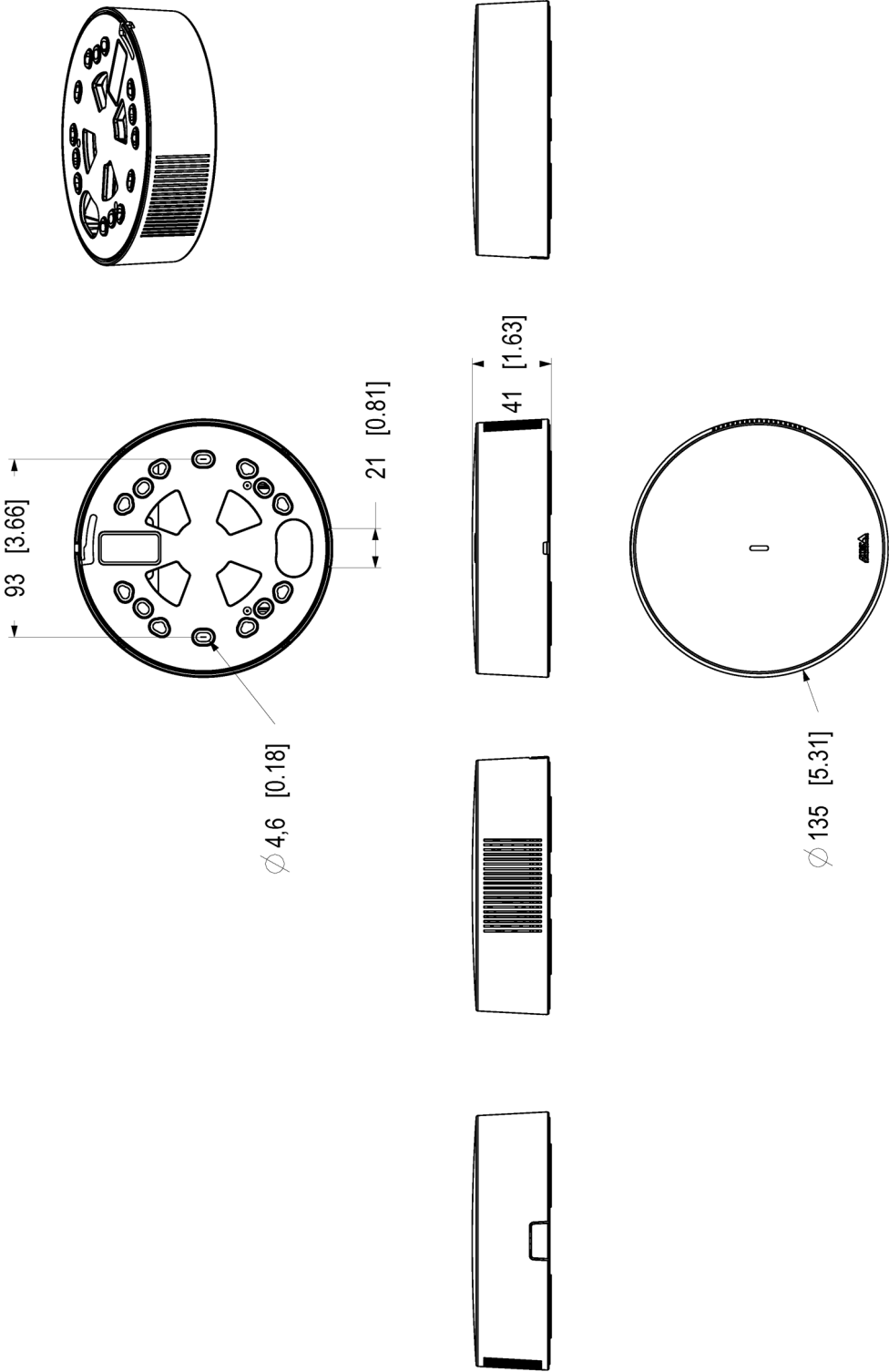
b. Applies to all the sensors in this product.

c. Applies to all the sensors in this product. The data is stored on the connected device.

d. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. ([www.openssl.org](https://www.openssl.org)), and cryptographic software written by Eric Young ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)).

e. This depends on the camera.

f. This is the optimal range to ensure the best performance. Exposure to conditions outside the recommended range may reduce sensor performance.



Dimensions in mm [inch]			
Date	Version	Scale	Sheet
2024 Dec-18	M1.1	1:2	1(1)
3223121			

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