

Air Quality Casambi Sensor

Wireless Indoor Environmental Quality (IEQ) Multi-Sensor — Casambi Bluetooth Mesh

Part No.: FC-AQ26-01

Protocol: Casambi Bluetooth

Measures: Temp / RH / Pressure / IAQ / eCO₂



FRANKCAS Air Quality Casambi Sensor — wireless indoor environmental monitoring, fully pre-configured and ready to deploy out of the box.

The **FC-AQ26-01** brings cost-effective, calibrated measurements of **temperature, humidity, air pressure, indoor air quality (IAQ) and eCO₂** to any commercial space — wirelessly, over the Casambi Bluetooth mesh.

Each unit is **fully calibrated and pre-configured by FRANKCAS** and ships ready to pair seamlessly with the **FRANKCAS Dashboard**, our custom-built monitoring platform that visualises live IEQ data, raises alerts and exports trends across your estate.

CASAMBI READY

PRE-CALIBRATED

PLUG & PLAY

DASHBOARD READY

IP20

FRANKCAS DASHBOARD READY: Every FC-AQ26-01 is fully calibrated and pre-configured at our facility to integrate directly with the FRANKCAS Dashboard. No site commissioning required — power, pair, and data flows immediately to your dashboard with live IEQ visualisation, threshold alerts and historical trending.

KEY FEATURES & BENEFITS

- 5-in-1 IEQ measurement (T, RH, hPa, IAQ, eCO₂)
- Pre-calibrated & configured by FRANKCAS
- Auto background calibration adapts to environment
- Standard mains supply: 220–240 V AC
- Supports Green Building certification scoring
- Wireless Casambi Bluetooth mesh — no cabling between nodes
- Native integration with FRANKCAS Dashboard
- Cloud data via Casambi gateway → REST / MQTT
- Ideal for offices, retail, schools & healthcare
- Compact ceiling-mount housing

TECHNICAL SPECIFICATIONS

Sensor & Wireless

Sensor Type	Multi-sensor IEQ (DALI-2 62386-306 core)
Wireless Protocol	Casambi Bluetooth Mesh
Configuration	Pre-configured — Plug & Play
Calibration	Factory calibrated by FRANKCAS
Dashboard	FRANKCAS Dashboard ready
Supply Voltage	220 – 240 V AC, 50/60 Hz
Current Draw	≤ 3.5 mA (sensor module)
Starting Time	3,600 s (full sensor stabilisation)

Measurement Ranges

Air Temperature	–20 ... +80 °C (res. 0.1 °C)
Relative Humidity	0 ... 100 % (res. 0.1 %)
Air Pressure	300 ... 1,100 hPa
Indoor Air Quality (IAQ)	Index 0 ... 500
eCO ₂ Equivalent	0 ... 8,000 ppm
Ambient Temp. (operation)	–20 ... +60 °C
Storage Temperature	–20 ... +70 °C
Type of Protection	IP20

AIR QUALITY INDEX — REFERENCE

Index	eCO ₂ (ppm)	Air Quality	Recommended Action	Status
0 – 50	0 – 350	Very Good	Clean air — no measures necessary	Green
51 – 100	351 – 700	Good	No measures necessary	Yellow

► AIR QUALITY INDEX — REFERENCE

Index	eCO ₂ (ppm)	Air Quality	Recommended Action	Status
0 – 50	0 – 350	Very Good	Clean air — no measures necessary	
51 – 100	351 – 700	Good	No measures necessary	
101 – 150	701 – 1,000	Minor contamination	Ventilation recommended	
151 – 200	1,001 – 1,500	Slight contamination	Increase ventilation with clean air	
201 – 250	1,501 – 2,500	Severe contamination	Optimize ventilation	
251 – 350	2,501 – 5,000	Massive contamination	Identify source & maximise ventilation	
> 351	5,001 – 8,000	Extreme contamination	Avoid presence; maximise ventilation	

► HOUSING & MECHANICAL

Housing Material	Polycarbonate (PC)
Lens Material	Polyethylene (PE)
Colour	White (RAL 9010)
Mounting	Ceiling / luminaire-integrated
Mounting Hole Ø	14.1 mm
Protection Class	IP20

► COMPLIANCE & STANDARDS

Approvals	CE, UKCA, RoHS, WEEE
Standards	EN 61347-2-11, EN 55015, EN 61000-3-2 / 3-3, EN 61547, EN 62386-101 / 103 / 306
Wireless Compliance	Casambi Bluetooth (BLE 5.x)
Warranty	5 Years (FRANKCAS standard)

► ORDERING INFORMATION

Part Number	Description	Colour	Protocol	Pre-Configured
FC-AQ26-01	Air Quality Casambi Sensor	White	Casambi BT Mesh	Yes — FRANKCAS Dashboard

FRANKCAS Lighting Control Systems
All FRANKCAS sensors are pre-calibrated & pre-configured at point of dispatch.

Specifications subject to change without notice.
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