



SMARTSCAN AIR QUALITY SENSOR



INDOOR AIR QUALITY SENSOR



SPECIFICATION

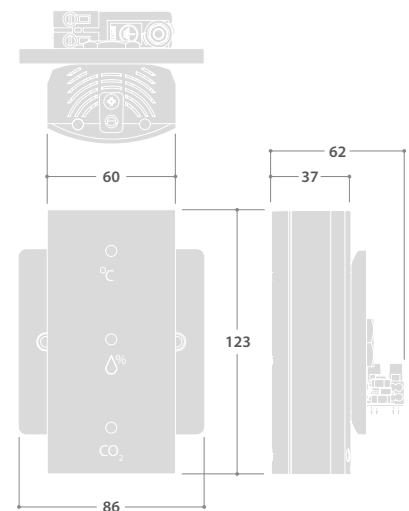
- Polycarbonate body finished white (RAL9016)
- Monitors temperature, humidity and CO₂ throughout the day
- Uploads data to SmartScan website daily (Gateway required)
- Coloured LED indicators show status
- Can be supplied factory-fitted to a LEXI exit sign or stand-alone for installation on a single gang pattress
- Maintenance free in normal environments Automatic, Baseline, Correction
- Operating temperature range 0 - 50°C

RANGE

DESCRIPTION	CAT. No.	APPROX. kg
Air quality Sensor	AQS 19181	0.15

Available pre-fitted to a LEXI exit sign. Suffix LEXI catalogue number with **AQS** e.g. **WLX17463AQS**

DIMENSIONS



SmartScan Wireless Standards Compliance:

Europe: EN 300 220-1 V2.4.1 / EN 301 489-3 V1.6.1

Australasia: ACMA 2014 Radio Communication Standard 2014

Thorlux Patented Wireless Technology - GB2575724

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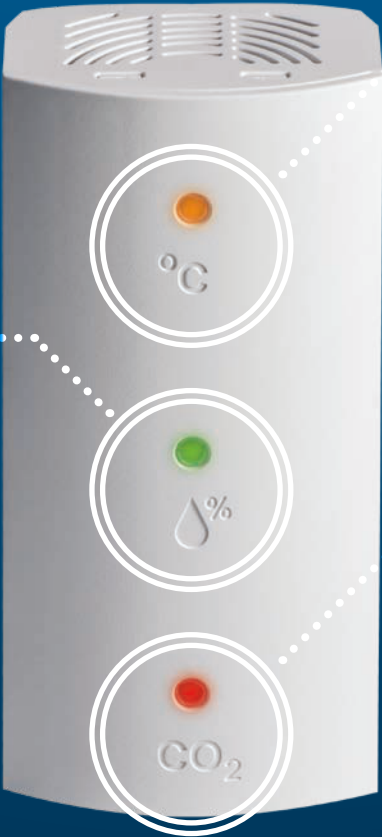
SMARTSCAN AIR QUALITY SENSOR

The SmartScan Air Quality Sensor monitors three key parameters: Temperature, CO₂ and Relative Humidity. Coloured LED indicators within the sensor provide live status information for each parameter, enabling users to take remedial action if necessary. Summary air quality data is included in the daily status upload to the SmartScan web server. The Air Quality Sensor has three settings, based on the usage of the space, that can be selected as part of the commissioning process; inactive, semi-active or active.

“THINK SMART ABOUT AIR QUALITY”

% HUMIDITY

Humidity needs to be within a range of values for the environment to be comfortable and to promote good health. If the humidity levels are too low, individuals may experience dryness and irritation to the skin, eyes, throat and nasal passages. Conversely, high humidity levels promote the growth and accumulation of mould spores, bacteria and dust mites, potentially leading to allergies and respiratory inflammation. Humidity is also linked to temperature, so that at lower temperatures, higher humidity levels can be tolerated.



°C TEMPERATURE

Temperature greatly influences an individual’s comfort level, affecting mood, performance and work-place productivity. Comfortable temperature ranges will depend upon the usage of the space.

CO₂ CARBON DIOXIDE

CO₂ levels over 1000ppm create a “stuffy” atmosphere, causing individuals to feel lethargic and sleepy, lowering concentration levels and reducing work-place performance. The cause of CO₂ build-up is often inadequate ventilation and/or air circulation within a space. Increasing the ventilation will bring in fresh air and dispel accumulations of CO₂.

AIR QUALITY SENSOR SETTINGS

SETTING	TEMPERATURE	HUMIDITY	CO ₂
 INACTIVE Typical Applications: Care Homes, Offices	● >26°C	● >70%	● >1000 ppm
	● 24 -26°C	● 51-70%	● 800-1000 ppm
	● 20 -24°C	● 25-50%	● <800 ppm
	● <20°C	● 20-25%	
		● <20%	
 SEMI-ACTIVE. Typical Applications: Warehouses, Factories, Retail	● >25°C	● >70%	● >1000 ppm
	● 23 -25°C	● 51-70%	● 800-1000 ppm
	● 20 -23°C	● 25-50%	● <800 ppm
	● <20°C	● 20-25%	
		● <20%	
 ACTIVE Typical Applications: Sports Halls	● >21°C	● >70%	● >1000 ppm
	● 19 -21°C	● 61-70%	● 800-1000 ppm
	● 16 -19°C	● 25-60%	● <800 ppm
	● <16°C	● 20-25%	
		● <20%	