Indoor air quality report





Ventilation

Natural

The Jo Cox Centre

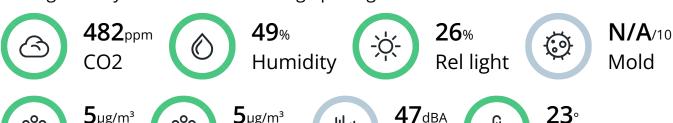
AddressBuilding typeBuilding yearQueensgateSchool2022Huddersfield HD1 3DHUK

Opening hours

 Monday
 Tuesday
 Wednesday
 Thursday
 Friday
 Saturday
 Sunday

 07:00 - 17:00
 07:00 - 17:00
 07:00 - 17:00
 07:00 - 17:00
 07:00 - 17:00
 07:00 - 17:00
 07:00 - 17:00

Average hourly measurements during opening hours







This indoor air quality report presents the quality of the air in a home, school, office, or other building environments. The recommended thresholds are based on guidance from the WHO and national agencies. Measurements have been made using Airthings indoor air quality monitors. The highest and lowest measurements are from the source data and not averages.



CO₂

Normal level800ppm

1000ppm

Action level800ppm < 1000ppm

< 800ppm < 1000ppi

Warning level

Average within opening hours 482_{ppm}

Average value

482_{ppm}

Carbon dioxide (CO2) is an important consideration when it comes to comfort and productivity. Air with high levels of CO2 can lead to difficulty concentrating, decreased cognitive ability, and fatigue. Typically, CO2 levels outdoors are around 400 parts per million (ppm). Concentrations below 800 ppm are considered ideal for a healthy and productive workspace. To reduce your CO2 levels increase space ventilation.

Values within opening hours	Average	Lowest measurement	Highest measurement
Christian / Multi-Faith room 1 Reception	488 ppm	407 ppm	1319 ppm
Christian / Multi-faith Room 2 Other	484 ppm	410 ppm	1284 ppm
Congregation Hall Other	465 ppm	406 ppm	980 ppm
Entrance Reception	• 475 ppm	420 ppm	690 ppm
Female Prayer Room Other	• 498 ppm	• 412 ppm	1399 ppm

Humidity

Warning level< 25%

Action level

60% < 70%

Action level 25% < 30%

70%

Warning level

Normal level 30% < 60% **(**

Average within opening hours

49%

Average value

49%

Humidity has a significant impact on comfort, respiratory health, and infectious disease transmission. Humidity levels between 30-60% are considered optimal. This range is recommended especially for those with allergies, asthma, or other respiratory illnesses. Maintaining humidity within these levels can also minimize the growth and spread of mold, viruses, and bacteria.

Values within opening hours

Average

Lowest measurement

Highest measurement



Christian / Multi-Faith room 1 Reception	49 %	30 %	74 %
Christian / Multi-faith Room 2 Other	47 %	27 %	74 %
Congregation Hall Other	50 %	29 %	73 %
Entrance Reception	47 %	30 %	64 %
Female Prayer Room Other	51 %	33 %	71 %

Rel light

Normal level



Average value

16%

Light levels (relative light intensity) can be useful to get an overview of light level trends inside a building. Note that the light sensor is primarily designed for capturing the wave gesture in front of the device, so the sensor is not very exposed to light in general and does not have a cosine receptor to capture light from all angles. This is why we present the light levels as a relative percentage.

Values within opening hours	Average	Lowest measurement	Highest measurement
Christian / Multi-Faith room 1 Reception	28 %	0 %	52 %
Christian / Multi-faith Room 2 Other	23 %	0 %	47 %
Congregation Hall Other	19 %	0 %	• 44 %
Entrance Reception	40 %	2 %	51 %
Female Prayer Room Other	19 %	• 0 %	• 42 %



Mold

Normal level< 3/10

Action level3/10 < 7/10

Warning level7/10



Average within opening hours

N/A/10

Average value

N/A/10

The mold risk sensor uses an algorithm based on the temperature and humidity sensor to measure how fast mold can grow under the current conditions.

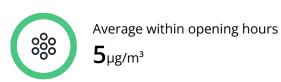
Values within opening hours	Average	Lowest measurement	Highest measurement
Entrance Reception	No data in selected time range		

PM1

Normal level< 10μg/m³

Action level
 10μg/m³ < 25μg/m³

Warning level
 25µg/m³



Average value

4µg/m³

PM is often brought into the building from outside. Exposure can trigger asthma and allergies, as well as cause irritation of eyes, ears, nose and throat. High levels can indicate problems with your filters or ventilation system.

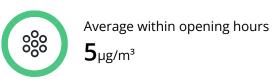
Values within opening hours	Average	Lowest measurement	Highest measurement
Christian / Multi-Faith room 1 Reception	4 μg/m³	0 μg/m³	34 μg/m³
Christian / Multi-faith Room 2 Other	4 μg/m³	0 μg/m³	36 μg/m³
Congregation Hall Other	6 μg/m³	0 μg/m³	48 μg/m³
Female Prayer Room Other	4 μg/m³	0 μg/m³	31 μg/m³



Normal level < 10µg/m³

Action level
 10μg/m³ < 25μg/m³

Warning level
 25µg/m³



Average value

 $5 \mu g/m^3$

PM is often brought into the building from outside. Exposure can trigger asthma and allergies, as well as cause irritation of eyes, ears, nose and throat. High levels can indicate problems with your filters or ventilation system.

Values within opening hours	Average	Lowest measurement	Highest measurement
Christian / Multi-Faith room 1 Reception	4 μg/m³	0 μg/m³	35 μg/m³
Christian / Multi-faith Room 2 Other	• 5 μg/m³	0 μg/m³	37 μg/m³
Congregation Hall Other	6 μg/m³	0 µg/m³	48 μg/m³
Female Prayer Room Other	4 μg/m³	0 μg/m³	32 μg/m³

Noise



Average within opening hours

47dBA

Average value

46dBA

Noise levels (dynamic range 35 - 120 dBA SPL) can be useful to get an overview of noise trends inside a building.

Values within opening hours	Average	Lowest measurement	Highest measurement
Christian / Multi-Faith room 1 Reception	48 dBA	38 dBA	92 dBA
Christian / Multi-faith Room 2 Other	47 dBA	38 dBA	93 dBA
Congregation Hall Other	48 dBA	39 dBA	94 dBA





Temperature

Warning level18°

Normal level18° < 25°

Warning level25°



Average within opening hours

23℃

Average value

23℃

The temperature is an important component of occupant comfort and productivity. The optimal temperature is in the range of 18-25°C or 64-77°F. An indoor temperature either above or below this range will reduce the overall indoor air quality rating.

Values within opening hours	Average	Lowest measurement	Highest measurement
Christian / Multi-Faith room 1 Reception	22.4 °C	16.5 °C	27.9 °C
Christian / Multi-faith Room 2 Other	23.4 °C	18.1 °C	28 °C
Congregation Hall Other	21.8 °C	17.7 °C	25.6 °C
Entrance Reception	23 °C	19.4 °C	26.6 °C
Female Prayer Room Other	• 22.5 °C	● 19.8 °C	25.9 °C



Normal level
 565µg/m³

Action level
565µg/m³ < 4545µg/m³

Warning level
 4545µg/m³



Average within opening hours

 $542 \mu g/m^3$

Average value

 $597 \mu g/m^3$

Total Volatile Organic Compounds (VOCs) are a diverse group of chemicals that are commonly found in the air in homes and offices. Common sources of VOCs include paints (such as formaldehyde), lacquers, cleaning supplies, furnishings, office equipment, glues, alcohol, and human breath. Moderate levels of exposure can cause headaches, fatigue, eye and throat irritation, and other symptoms that can affect comfort and concentration. In order to reduce the VOC levels, improve ventilation and identify and remove the potential sources.

Values within opening hours	Average	Lowest measurement	Highest measurement
Christian / Multi-Faith room 1 Reception	670 μg/m³	105 μg/m³	 3315 μg/m³
Christian / Multi-faith Room 2 Other	747 μg/m³	105 μg/m³	4102 μg/m³
Congregation Hall Other	560 μg/m³	105 μg/m³	Ο 2319 μg/m³
Entrance Reception	290 μg/m³	105 μg/m³	937 μg/m³
Female Prayer Room Other	445 μg/m³	105 μg/m³	Ο 2273 μg/m³

Generated: 17/10/24 16:01 **Measurement by:** Lucy Golding

Report id: 5c2ab4a8-acb7-4de9-a906-48486fd6e3a0 Measurement devices: Airthings Space Pro,

Airthings Space Plus

Comment:

