



Indoor Environmental Quality (IEQ) Monitoring & Diagnostics Dashboard

**User Manual v5
April 2021**



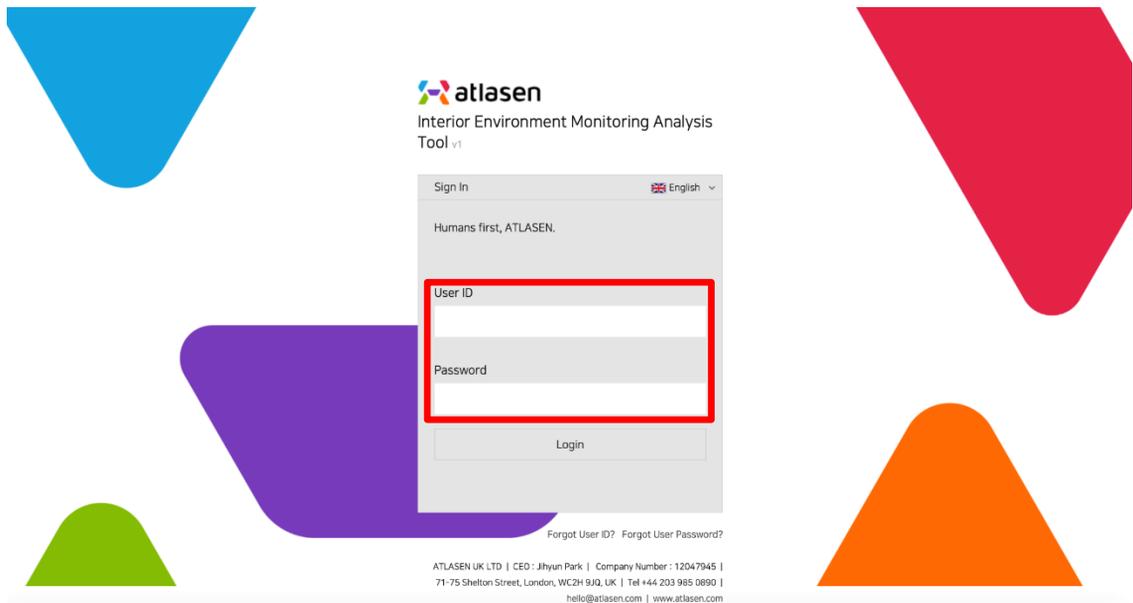
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1. User Login

1.0. Login

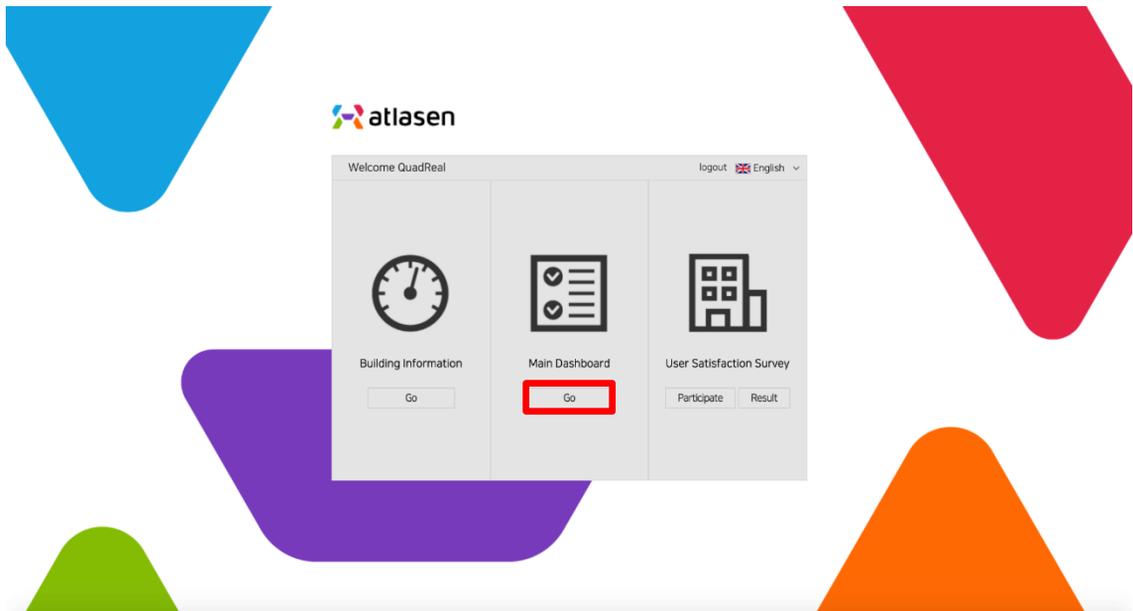
After connecting to <https://ca.atlasencontrol.com>
enter the User ID/Password to access the FM/Master administrator page



2. Main Dashboard

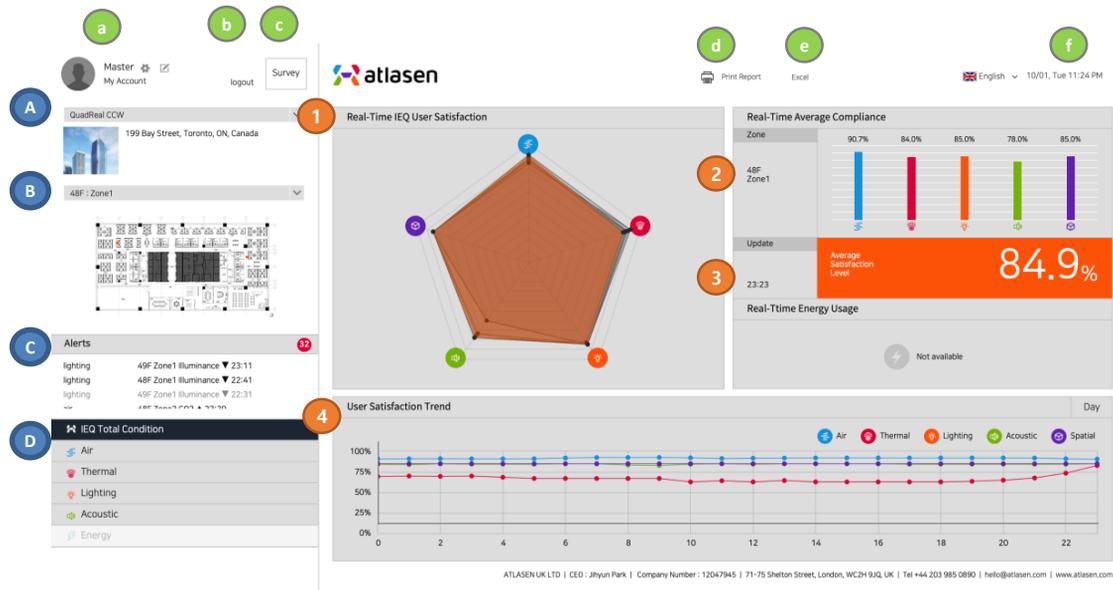
2.0. Main Dashboard Access Menu

From the menu, click “Main Dashboard => Shortcut”



2.1. Main Page

“IEQ Total Condition” Main Screen



Summary screen according to selected Building, Floor and Zone

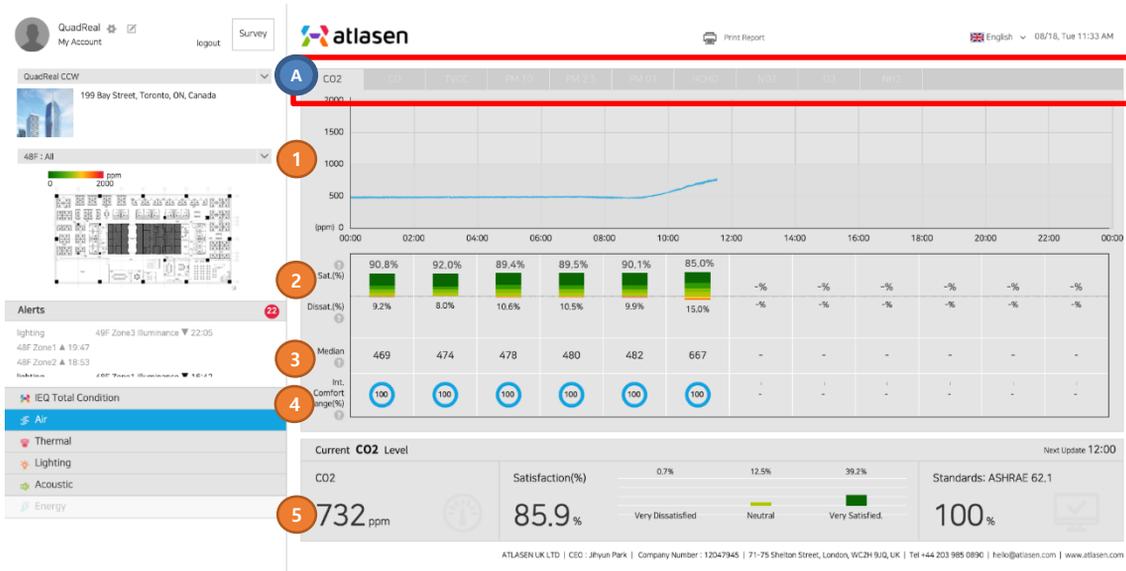
- ① Real time IEQ balance on Air, Thermal, Lighting, Acoustic and Spatial Quality
- ② Real-time Average Compliance: User satisfaction shown through bar graph
- ③ Average Satisfaction Rating: Average of user satisfaction of each sensor weighted
- ④ User Satisfaction Trends: Line graphs of user satisfaction in each IEQ category

- a. Login Info
- b. Logout
- c. Survey Participation
- d. Print Report
- e. Download measured sensing data as Excel format
- f. Show current date and time

- A. Building Information
- B. Floor plan and Sensor location
- C. Warning contents
- D. IEQ Total Condition and IEQ details menu

2.2. Detailed Page: Air Quality

IEQ Air Quality Page



Air quality dashboard: CO2, CO, TVOC, PM10, PM 2.5, PM 1.0, HCHO, NO2, O3, NH3

- ① Line graph: Real-time sensing data from the sensors.
- ② Average user Satisfaction prediction (%) in 7 scales in every 2 hours (0:00~2:00, 2:00~4:00, 4:00~6:00...)
 - Very satisfied/ Satisfied/ Somewhat Satisfied/ Neutral/ Somewhat dissatisfied/ Dissatisfied/ Very Dissatisfied
- ③ Display median (or middle number in sorted) of sensor values distributed in every 2 hours.
- ④ % within comfort range from international IEQ standards inducing ASHRAE, EPA, ANSI, IESNA, etc.
- ⑤ Real-time data: measured IEQ values, 7-scale user satisfaction (%), international compliance (%)

A. Load detailed pages by sensor item

- CO2 (Carbon Dioxide)
- CO (Carbon Monoxide)
- TVOC (Total Volatile Organic Compounds)
- PM10 (Coarse Particulate Matter)
- PM 2.5 (Fine Particulate Matter)
- PM 1.0 (Ultrafine Particulate Matter)
- HCHO (Formaldehyde)
- NO2 (Nitrogen Dioxide)
- O3 (Ozone)
- NH3 (Ammonia)

2.2. Detailed Page: Thermal Quality

IEQ Thermal Quality Page



Thermal quality dashboard: Temperature, Humidity

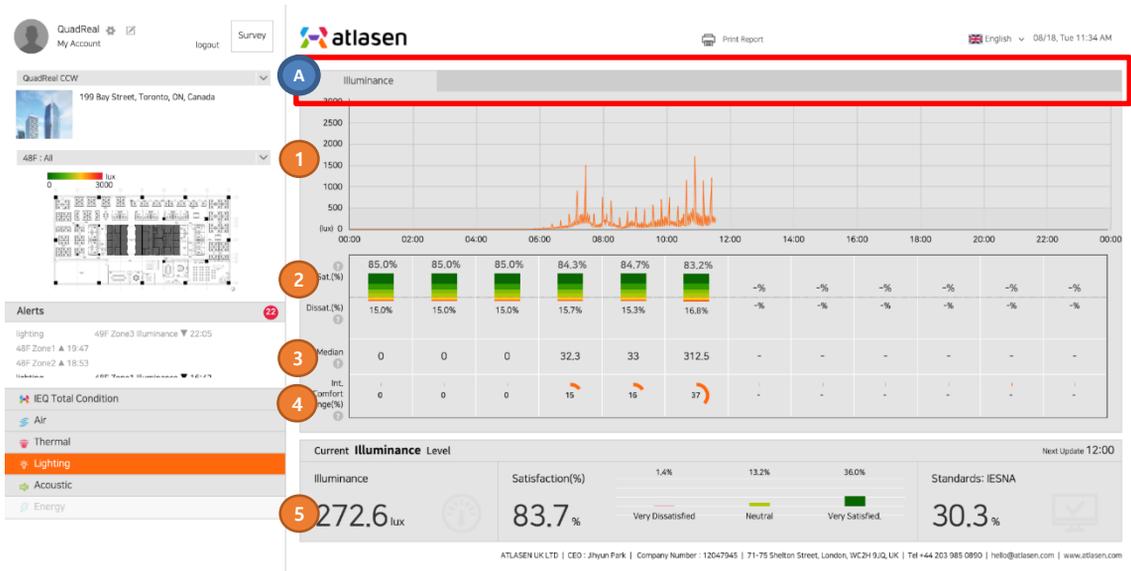
- ① Line graph: Real-time sensing data from the sensors.
- ② Average user Satisfaction prediction (%) in 7 scales in every 2 hours (0:00~2:00, 2:00~4:00, 4:00~6:00...)
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- ③ Display median (or middle number in sorted) of sensor values distributed in every 2 hours.
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- ⑤ Real-time data: measured IEQ values, 7-scale user satisfaction (%), international compliance (%)

A. Load detailed pages by sensor item

- Temperature
- Relative Humidity

2.4. Detailed Page: Lighting Quality

IEQ Lighting Quality Page



Lighting quality dashboard: Illuminance

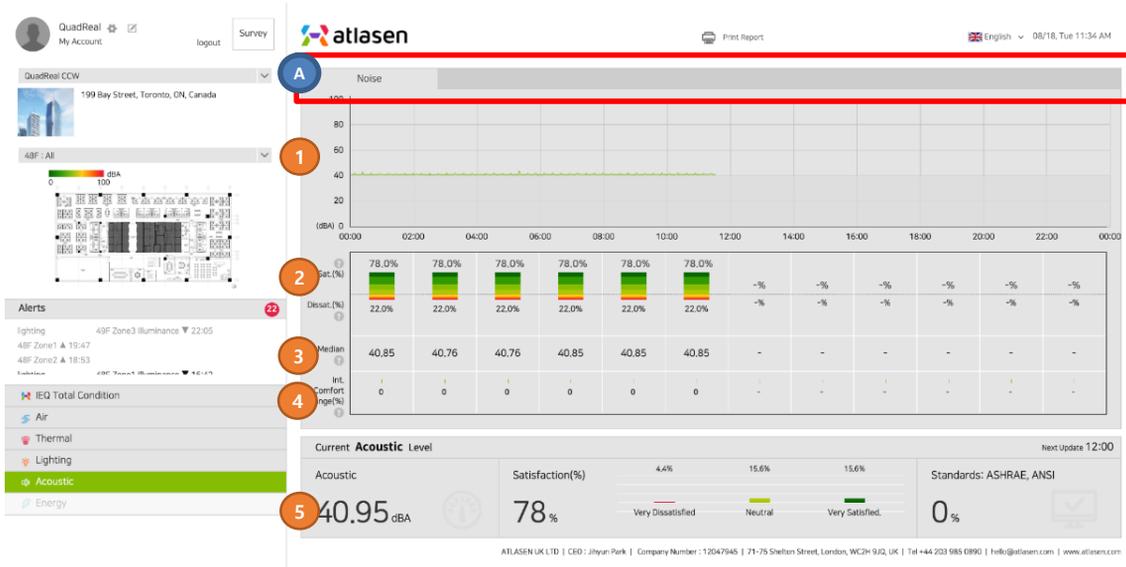
- ① Line graph: Real-time sensing data from the sensors.
- ② Average user Satisfaction prediction (%) in 7 scales in every 2 hours (0:00~2:00, 2:00~4:00, 4:00~6:00...)
 - Very satisfied/ Satisfied/ Somewhat Satisfied/ Neutral/ Somewhat dissatisfied/ Dissatisfied/ Very Dissatisfied
- ③ Display median (or middle number in sorted) of sensor values distributed in every 2 hours.
- ④ % within comfort range from international IEQ standards inducing ASHRAE, EPA, ANSI, IESNA, etc.
- ⑤ Real-time data: measured IEQ values, 7-scale user satisfaction (%), international compliance (%)

A. Load detailed pages by sensor item

- Illuminance (Lux)

2.5. Detailed Page: Acoustic Quality

IEQ Acoustic Quality Page



Acoustic quality dashboard: Noise

- ① Line graph: Real-time sensing data from the sensors.
- ② Average user Satisfaction prediction (%) in 7 scales in every 2 hours (0:00~2:00, 2:00~4:00, 4:00~6:00...)
 - Very satisfied/ Satisfied/ Somewhat Satisfied/ Neutral/ Somewhat dissatisfied/ Dissatisfied/ Very Dissatisfied
- ③ Display median (or middle number in sorted) of sensor values distributed in every 2 hours.
- ④ % within comfort range from international IEQ standards inducing ASHRAE, EPA, ANSI, IESNA, etc.
- ⑤ Real-time data: measured IEQ values, 7-scale user satisfaction (%), international compliance (%)

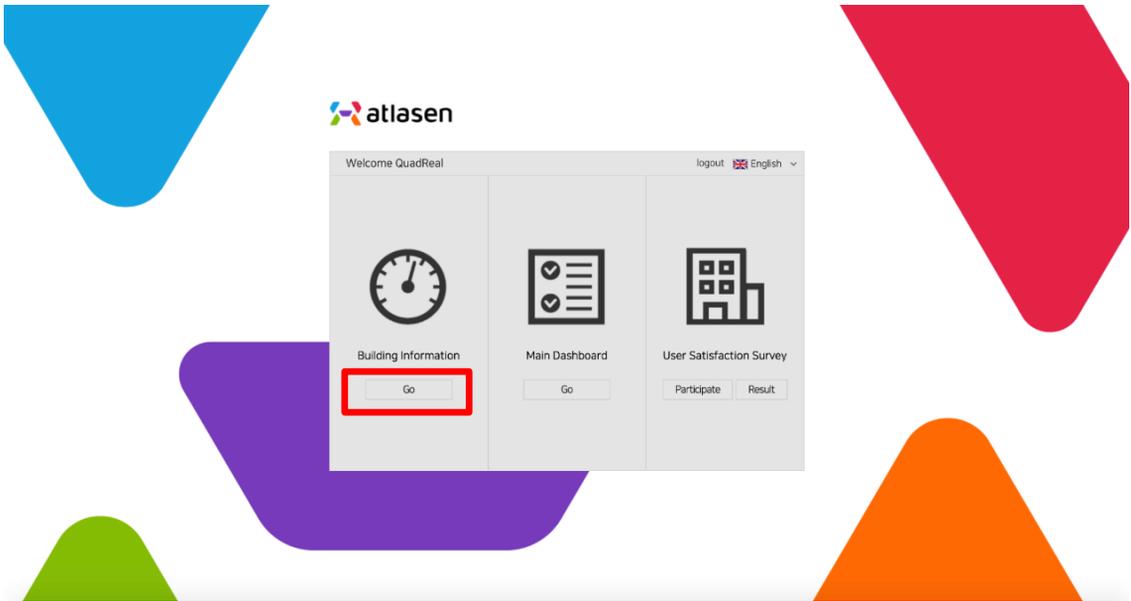
A. Load detailed pages by sensor item

- Acoustic Level (dB)

3. Building Information Input (optional)

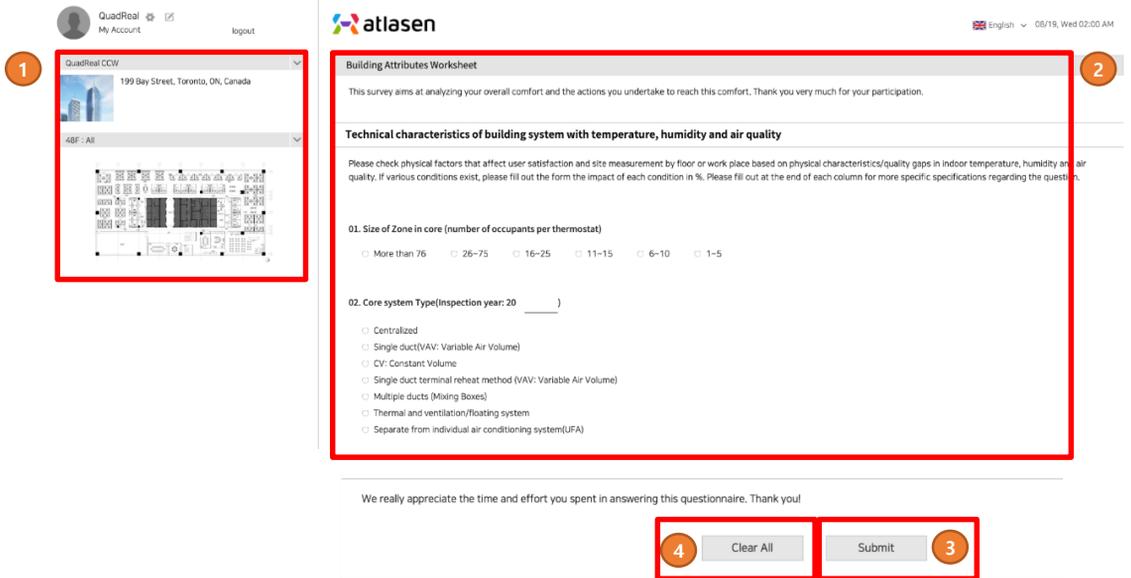
3.0. Accessing the Building Information Menu

Click "Building Information => Go" from the menu



3.1. Building Information input

Building Information and System Input Page

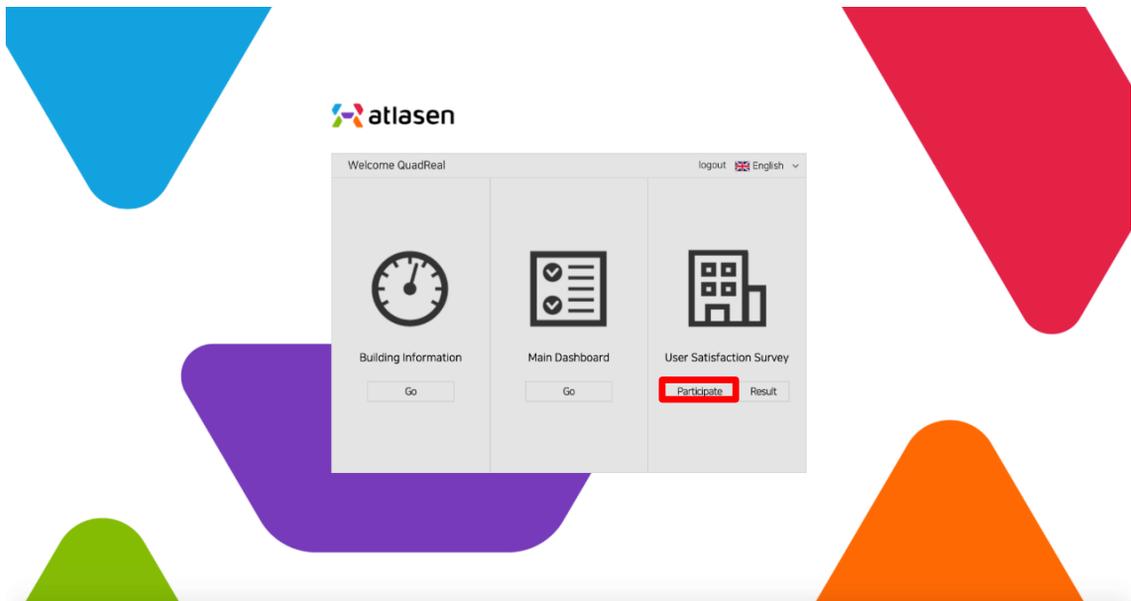


- ① Select / Verify buildings, floors and zones
- ② Enter selected building details, floor, building zone, systems, facilities, etc.
- ③ Click "Submit" to complete survey
- ④ Click "Clear all" to refresh all answers

4. User Satisfaction Survey Input (optional)

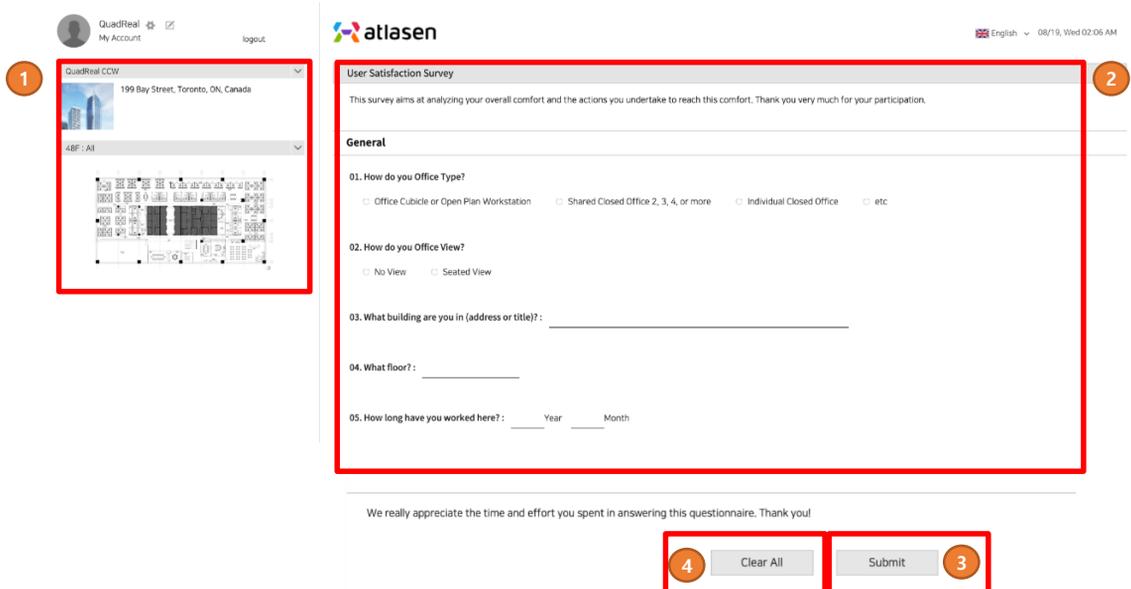
4.0. Accessing the User Satisfaction Survey Menu

Select "User Satisfaction Survey => Participate" from the menu



4.1. User Satisfaction Survey

Participate in user satisfaction survey

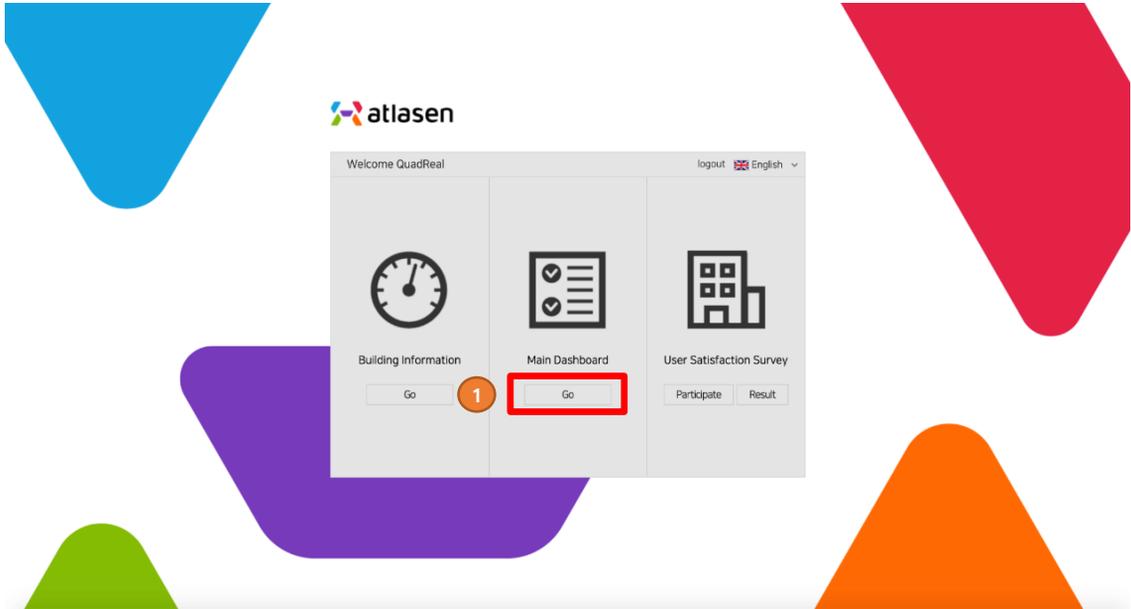


- ① Select and verify building and zones
- ② User satisfaction survey on current indoor environment
- ③ Fill out each question and click "submit"
- ④ Click "Clear all" to refresh all answers

5. Master Settings

5.0.0. Accessing the Master Settings

- 1 Click "Main Dashboard => Go" from the menu



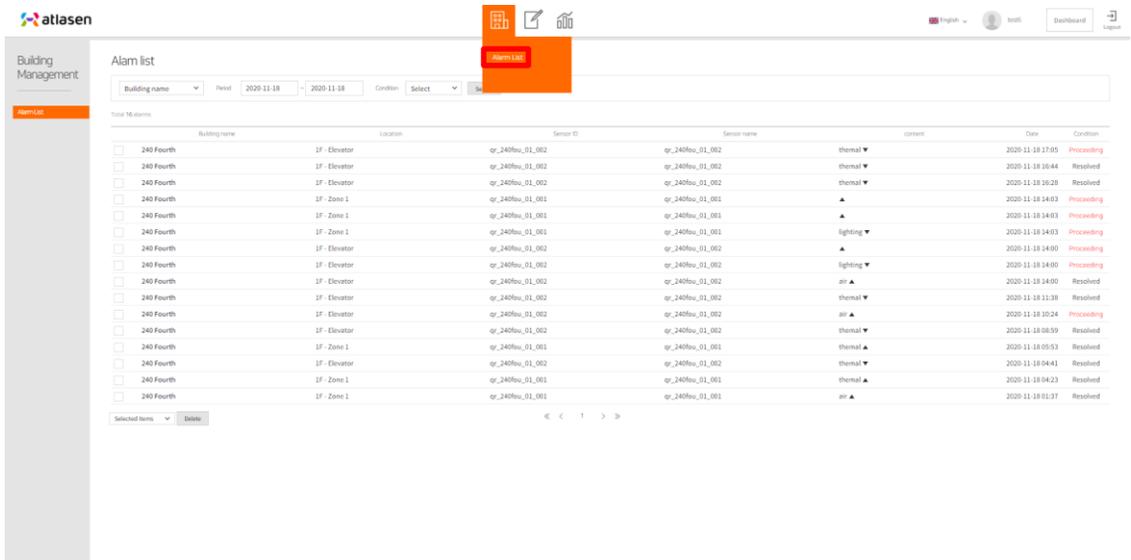
5.1.0. Accessing the Alarm List menu

- 2 Click Setting icon  from the top left menu.

The screenshot shows the Atlasen Real-Time IEQ User Satisfaction dashboard. On the left is a sidebar with a user profile (Master My Account), location (QuadReal CCW, 199 Bay Street, Toronto, ON, Canada), zone (48F - Zone1), and an Alerts section with three lighting alerts. The main content area includes a "Real-Time IEQ User Satisfaction" radar chart, a "Real-Time Average Compliance" bar chart showing 84.9% average satisfaction level, and a "User Satisfaction Trend" line chart for Air, Thermal, Lighting, Acoustic, and Spatial metrics over a 24-hour period. The footer contains contact information for Atlasen UK LTD.

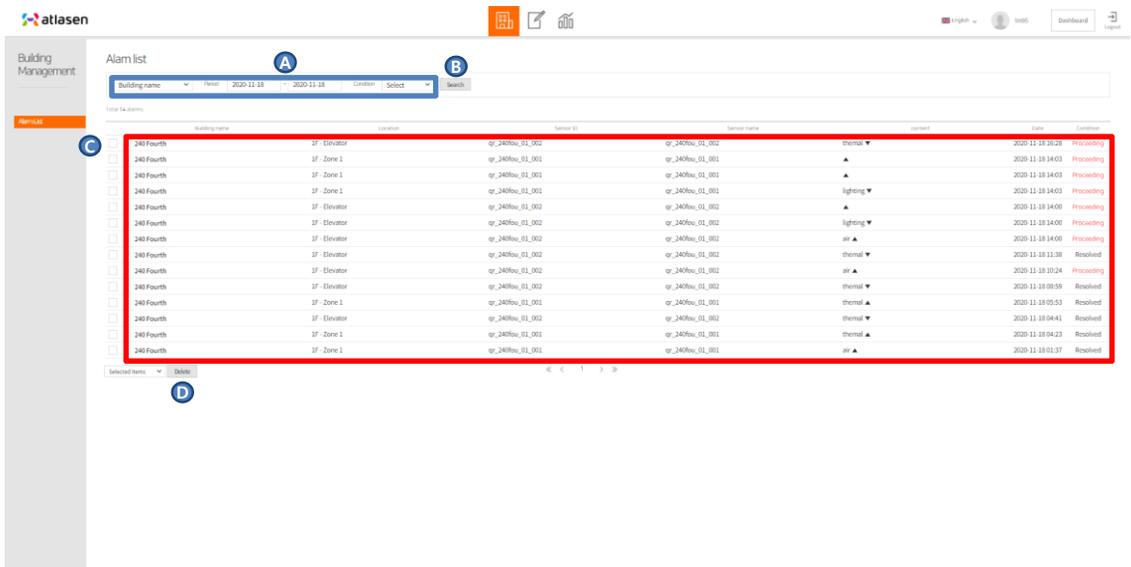
5.1.0. Accessing the Alarm List menu

Click Alarm List from the top menu



5.1.1. Alarm List menu

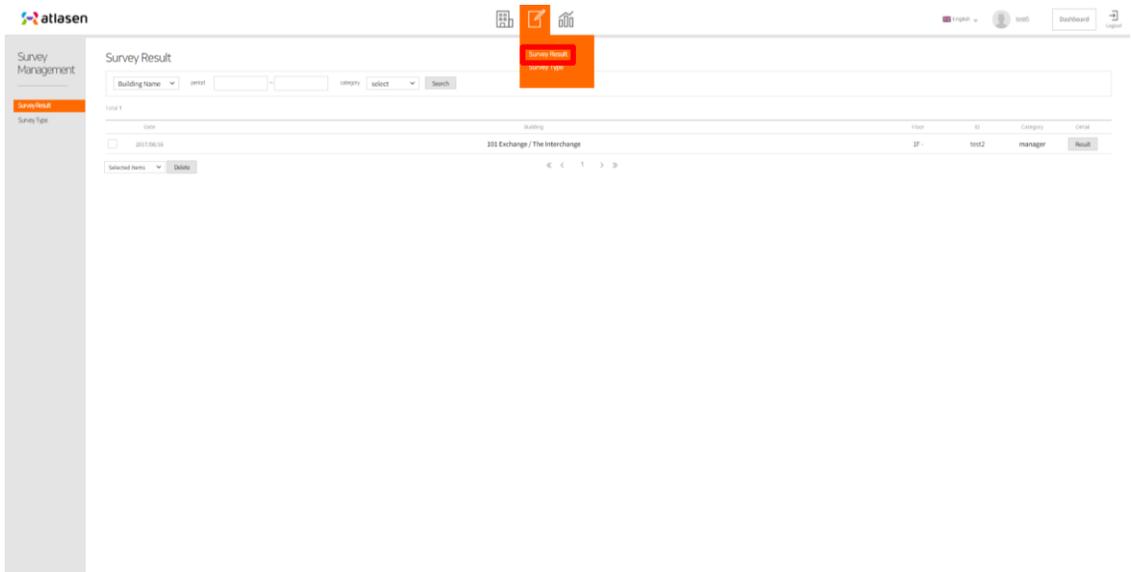
Display information about alarms.



- A. Search Criteria
 - Enter the building name, period, and condition.
- B. Button to show search results
- C. Checkboxes that select alarms to delete
- D. Button to delete selected alarms

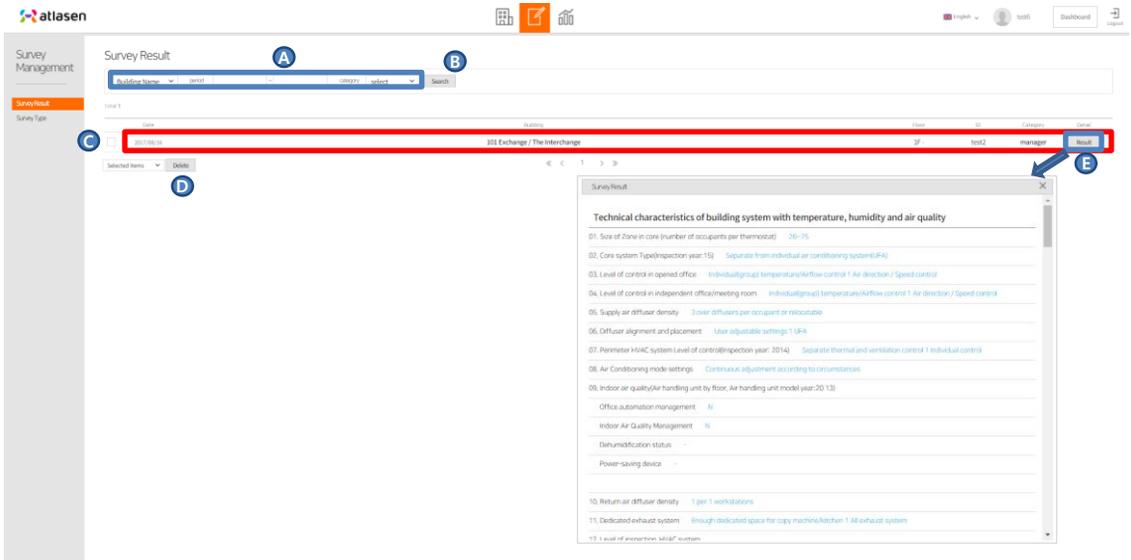
5.2.0. Accessing the Survey Result menu

Click Survey Result from the top menu



5.2.1. Survey Result menu

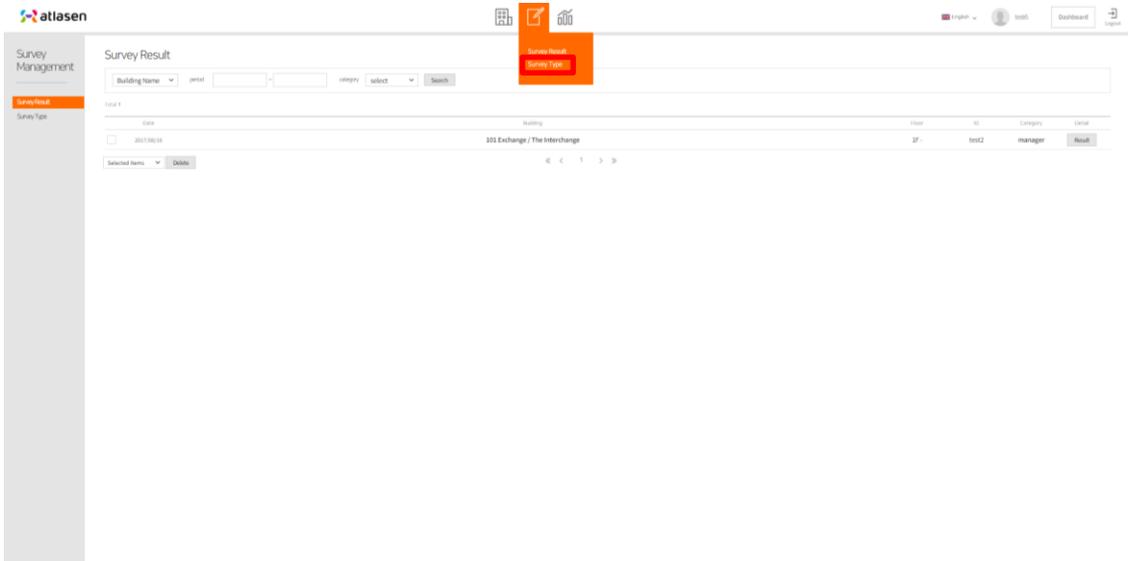
Display information about survey results.



- A. Search Criteria
 - Enter the building name, period, and category.
- B. Button to show search results
- C. Checkboxes that select survey results to delete
- D. Button to delete selected survey results
- E. Button to check for specific survey answers

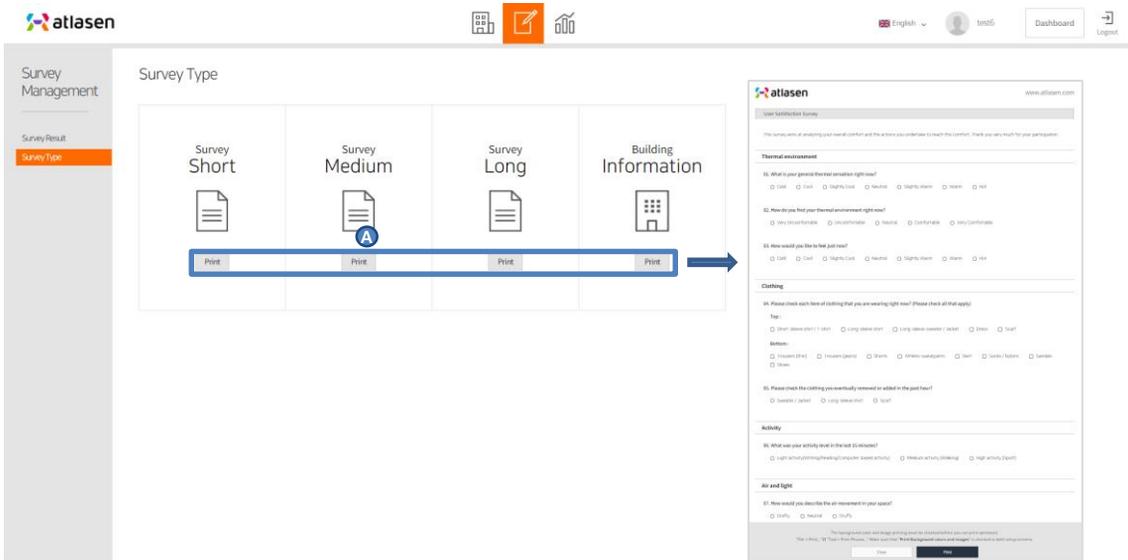
5.3.0. Accessing the Survey Type menu

Click Survey Type from the top menu



5.3.1. Survey Type menu

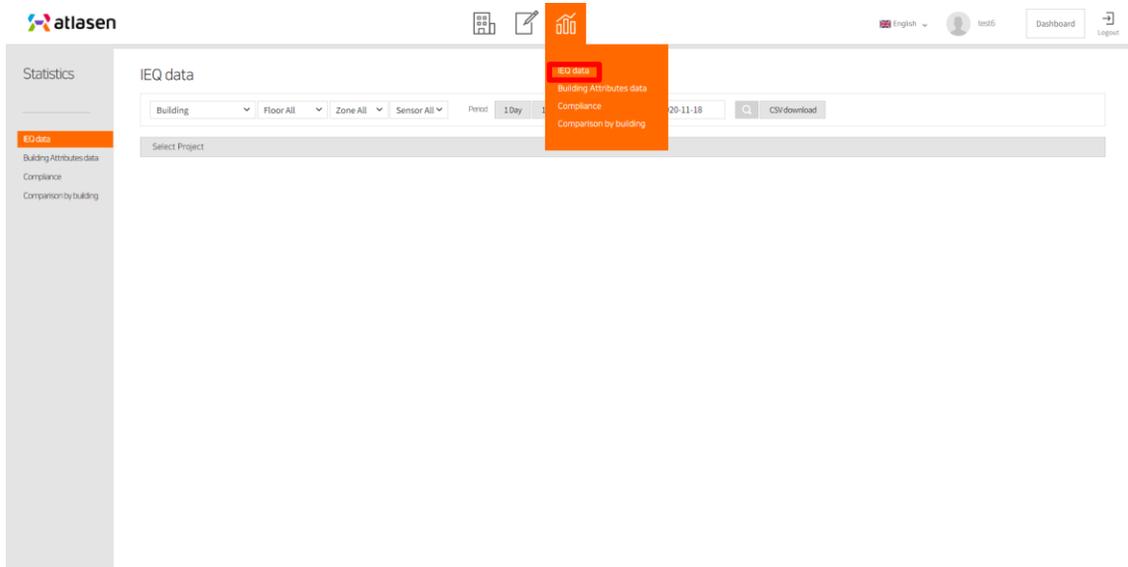
Display Survey by type



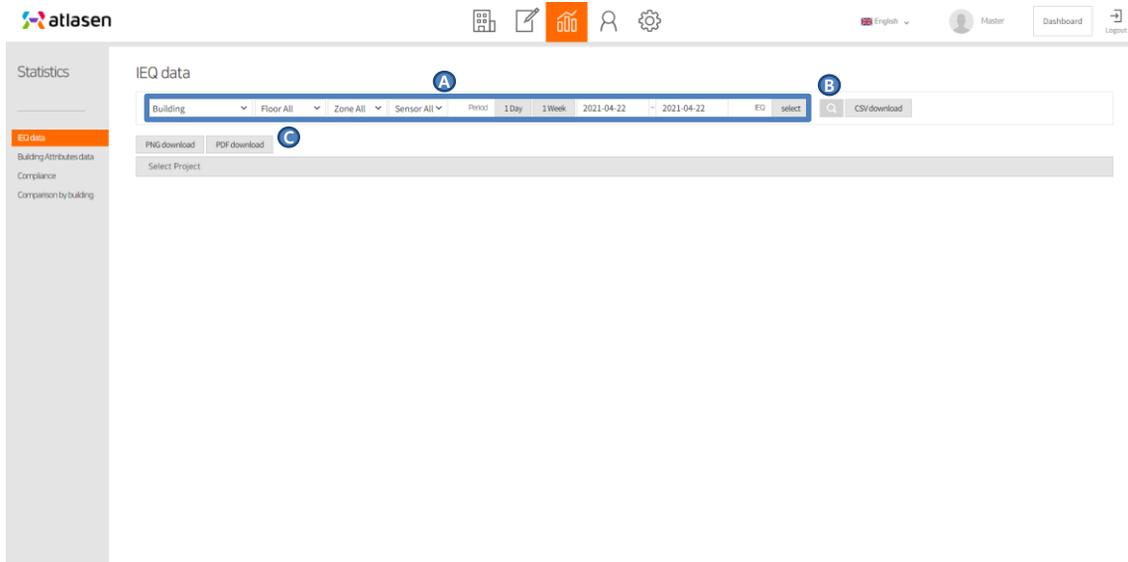
A. Button to display the questionnaire

5.4.0. Accessing the IEQ data menu

Click IEQ data from the top menu



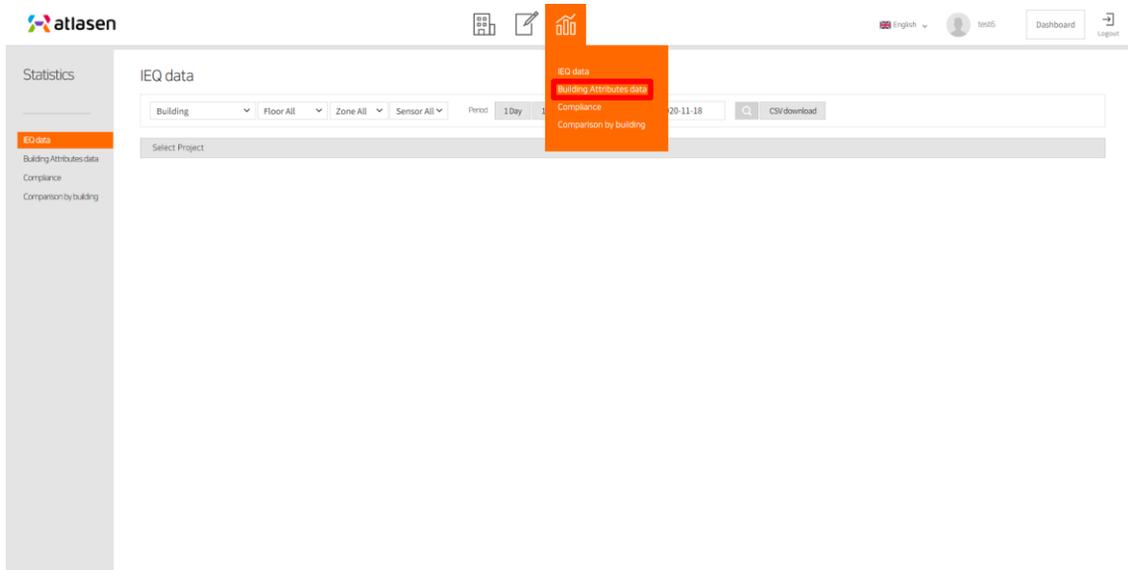
5.4.1. IEQ data menu



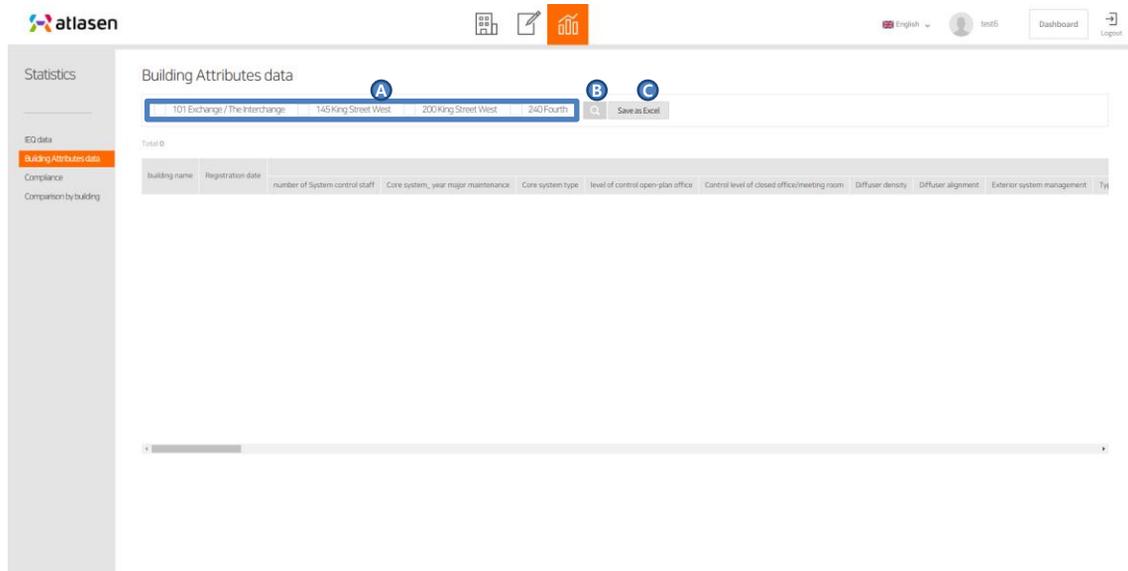
- A. Search Criteria
 - Enter the building name, floor, zone, sensor and period.
- B. Button to show search results
- C. Button to download data in an excel file

5.5.0. Accessing the Building Attributes data menu

Click Building Attributes data from the top menu



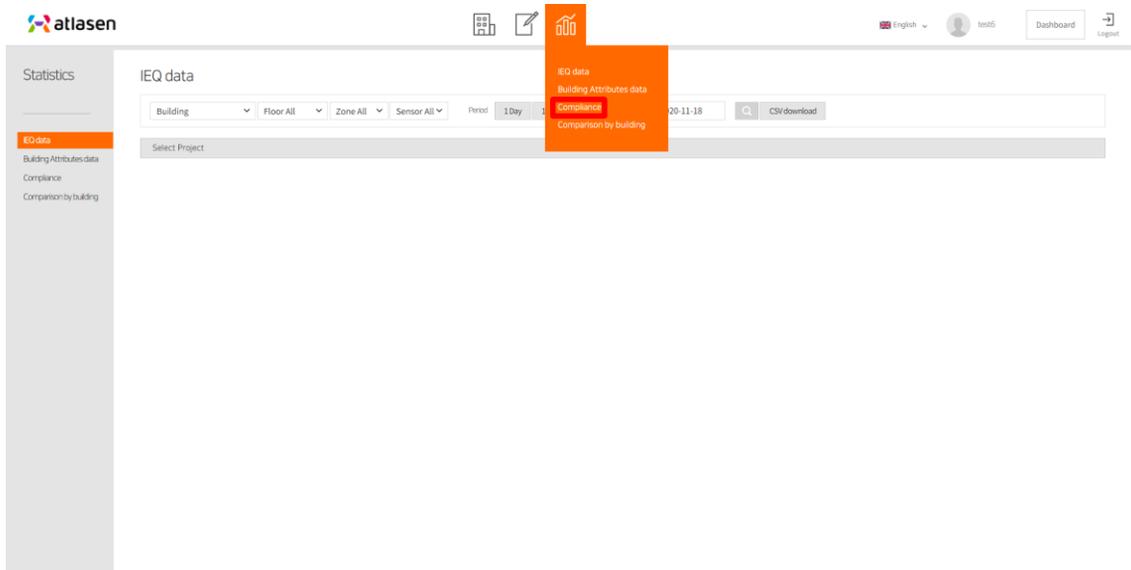
5.5.1. Building Attributes data menu



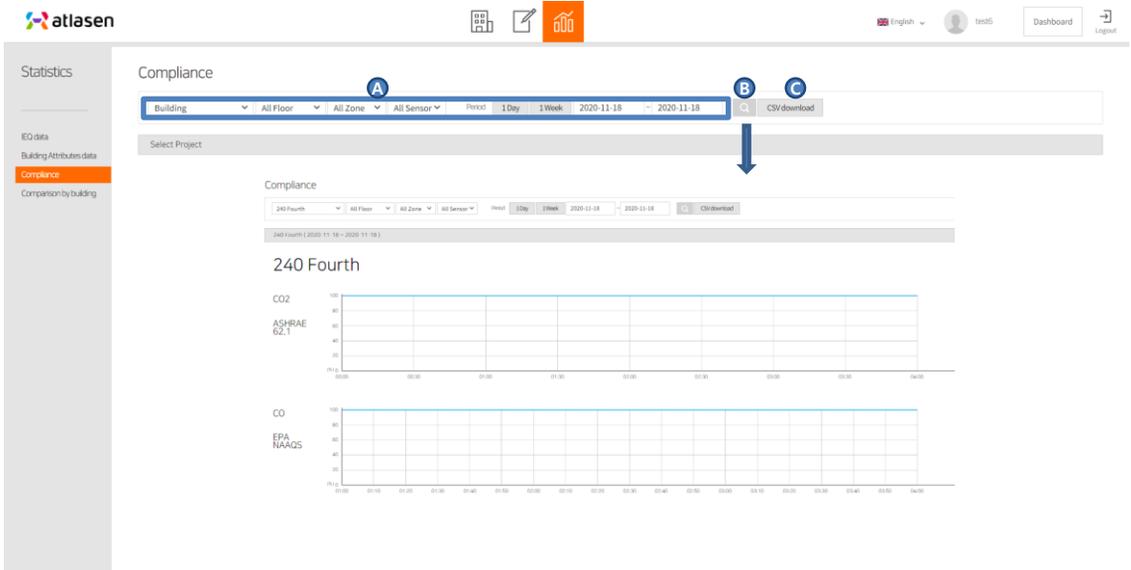
- A. Select buildings.
- B. Button to show search results
- C. Button to download search result in an excel file

5.6.0. Accessing the Compliance menu

Click Compliance from the top menu



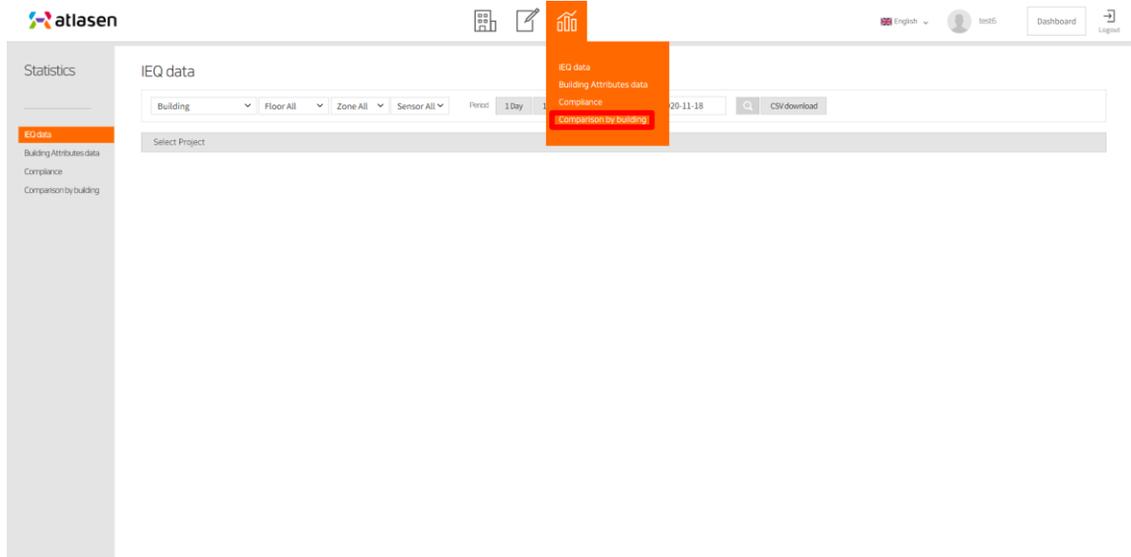
5.6.1. Compliance menu



- A. Search Criteria
 - Enter the building name, floor, zone, sensor and period.
- B. Button to show search results
- C. Button to download data in an excel file

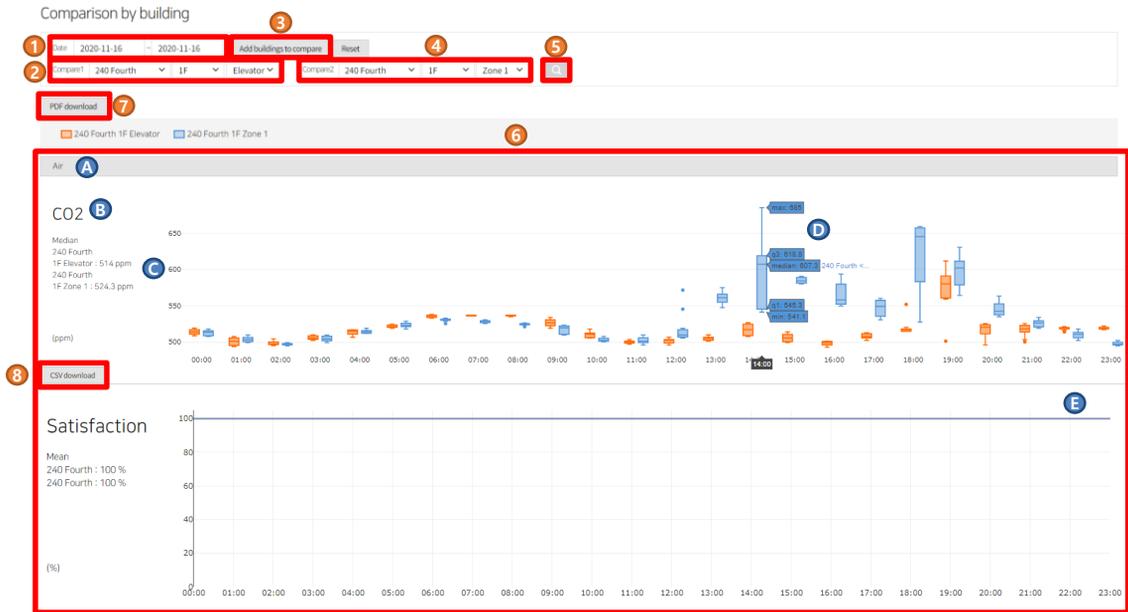
5.7.0 Accessing the Building management Menu

Click Comparison by building from the top menu



5.7.1. Comparison by building

Comparison by building



- 1 Set the date
- 2 Select and verify building, floor and zone
- 3 Click "Add buildings to compare" to add buildings to compare
- 4 Select and verify building, floor, and zone you added
- 5 Click the magnifier button to compare buildings
- 6 The results are shown below
- 7 Click "PDF download" to download the data to an Excel file
- 8 Click "CSV download" to download the results to pdf

- A. Sensor item category
- B. Sensor item
- C. Median value
- D. Mouse up to check max, median, min values.
- E. Graph of the data values for the period



atlasen

Indoor Environmental Quality

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