Indoor Environmental Quality (IEQ) Monitoring & Diagnostics Dashboard

> User Manual v5 April 2021



Indoor Environmental Quality

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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

Atlasen Interior Environment Monitoring Analysis Tool vi	
Sign In 🗱 English 🗸 Humans first, ATLASEN.	
 User ID	
Password	
Login	
Forgot User ID? Forgot User Password? ATLASEN UK LTD CE0: Jhyun Park Company Number: 12047945	
71-75 Shelton Street, London, WC2H 9JQ, UK Tel +44 203 985 0890 helio@atlasen.com www.atlasen.com	



2. Main Dashboard

2.0. Main DashboardFrom the menu, click "Main Dashboard => Shortcut"**Access Menu**







"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

2.1. Main Page

- 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

QuadReal 🚯 🗹 Survey	🔁 atlasen				ē	Print Report			摄	∰English ∨ 0	8/18, Tue 11:33 AM
OuacReal CCW V 199 Bay Street, Toronto, ON, Canada	A CO2 CO	TVOC	PM 10 PM 2	.5 PM 01	нсно	NO2	03	NH3			
	1 1000 500 (spm) 0 00:00 0: 2 5at (%) 90.8%	2:00 04:00	06:00	08:00 10	0:00 1 85,0%	2:00 14	-%	-%	8:00 2	.0:00 ;	22:00 00:00
Alerts 😰	Dissat.(%) 9.2%	8.0%	10.6% 10.5%	9.9%	15.0%	-%	-%	-%	-%	-%	-%
lighting 49F Zone3 Illuminance ▼ 22:05 48F Zone1 & 19:47 48F Zone2 & 18:53 biblion	3 Median 469	474	478 480	482	667	-	-	-	-	-	-
R IEQ Total Condition	4 Comfort 100	100	100 100	100	100		-	-	-	-	
≶ Air											
Provide the second seco	Current CO2 Level										Next Update 12:00
Acoustic	CO2		Satisfaction(%)	0.	7%	12.5%	39.:	2%	Standard	s: ASHRAE 62	2.1
₿ Energy	5732 ppm		85.9 _%	Very Dis	satisfied	Neutral	Very Sa	itisfied.	100)"	
			ATLASENUK LTD. LCCC.	liberup Basis Compos	wheeler 1204	OVER 1 71-75 Ebolto	e Etropi London W		wi + 4.4 202 085 087	10 helle@stisses	com Luureu atlacan com

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

QuadReal & Z My Account logout	survey 🔁 atlasen		ē	Print Report		🗮 English 🗸	08/18, Tue 11:33 AM
QuadReal CCW	A Temp	Humidity					
199 Bay Street, Toronto, ON, Canada	80						
	1	04:00 06:00 0 76.3% 77.5% 76.4%	8.00 10:00 77,5% 80.6%	12:00 14:00	16:00 1 -% -%	8.00 20.00	22:00 00:00
Alerts	23.6%	23.7% 22.4% 23.6%	22.5% 19.4%	-%	-% -%	-% -%	-%
lighting 49F Zone3 Illuminance ₹ 22:05 48F Zone1 ≜ 19:47 48F Zone2 ≜ 18:53 Eiskline 60E Zone1 Illuminance ₹ 16:43	3 Median 55,1	52.9 56.3 56.5	55.1 52.2	-			-
🙀 IEQ Total Condition	Comfort nge(%)	(91 (92 (90	95 100	-			-
∉ Air	0						
👻 Thermal	Current Humidity Lev	vel					Next Update 12:00
de Acoustic	Humidity	Satisfaction(%)	3.2%	13.1%	31.7%	Standards: ASHRAE	55
Finergy	<mark>5</mark> 49.1 _%	79.8%	Very Dissatisfied	Neutral	Very Satisfied.	100%	
		ATLASEN UK LTD CEO : JIh	yun Park Company Number : 1204	7945 71-75 Shelton Stre	at, London, WC2H 9JQ, UK Tr	al +44 203 985 0890 helio@atlar	sen.com www.atlasen.com

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...) 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
- Temperature
- Relative Humidity



2.4. Detailed Page: **Lighting Quality**

IEQ Lighting Quality Page

QuadReal 🌸 🗹 Surv	🖤 🗲 atlasen		0	Print Report		🧱 English 🗸	08/18, Tue 11:34 AM
QuadReel CCW 199 Bay Street, Toronto, ON, Canada	V A Illuminance						
28E - A1	2500						
·····································	1500	ا بعالي .					
	0 00:00 02:00 85,0% 85,0%	04:00 06:00 08 % 85.0% 84.3%	00 10:00 1 84.7% 83.2%	2:00 14:00	16:00 14	8:00 20:00	22:00 00:00
· · · · · · · · · · · · · · · · · · ·	2 jat.(%)			-% -%	-%	-% -%	-%
Alerts	22 Dissat.(%) 15.0% 15.0%	15.0% 15.7%	15.3% 16.8%	-% -%	-%	-% -%	-%
lighting 49F Zone3 Illuminance ▼ 22:05 48F Zone1 ▲ 19:47 48F Zone2 ▲ 18:53 Unitine 48F Zone3 Illuminance ▼ 16:42	3 Median 0 0	0 32.3	33 312.5		-		-
🔀 IEQ Total Condition	4 nge(%)	0 15	16 37		-	1.1	1.1
<i>≩</i> Air	0						
🍲 Thermal	Current Illuminance Level						Next Update 12:00
상 Lighting d) Acoustic	Illuminance	Satisfaction(%)	1,4%	13.2%	36.0%	Standards: IESNA	
	5272.6 lux	83.7*	Very Dissatisfied	Neutral	Very Satisfied.	30.3%	
		ATLASEN UK LTD CED : Jhvs	in Park Company Number : 12047	945 71-75 Shelton Street, Lo	andon. WC2H 9JQ, UK Te	N +44 203 985 0890 helio@atlast	en.com I www.atlasen.com

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

QuadReal & Z My Account logout	^{survey} 🔀 atlasen		0	Print Report		🚟 English 👻 08/18, Tue 11:34 AM
QuadReal CCW 199 Bay Street, Toronto, ON, Canada	V A Noise					
	80					
48F : All	~ (1) 60					
0 1000 [13] 新新 新 新 新 新 新 新 新 新 新 新 新 新 新 新 新 開始 英 第 0 (新) (新新)(新新) (新)(新 二 [19]) (新 新 新 新 新 新 新 新 新 新 新 新 新 新 新 新 新 新 新	40 20 (dEN) D					
	00:00 02:00	04:00 06:00 08	:00 10:00	12:00 14:00	16:00 18:00	20:00 22:00 00:00
	2 5at (%) 78.0% 78.0%	78.0% 78.0%	78.0% 78.0%	-% -%	-% -*	% -% -%
Alerts	22 Dissat.(%) 22.0% 22.0%	22.0% 22.0%	22.0% 22.0%	-% -%	-% -5	% -% -%
lighting 49F Zone3 Illuminance ▼ 22:05						
48F Zone1 ▲ 19:47 48F Zone2 ▲ 18:53	3 Median 40.85 40.76	40.76 40.85	40.85 40.85			
Eahtina 200 7aaa1 Illiminaaaa 🛡 16:22	int. I I					in the second second
🔀 IEQ Total Condition	4 nge(%) 0 0	0 0	0 0			
≸ Air						
Provide the second seco	Current Acoustic Level					Next Update 12:00
¿ Lighting	Acoustic	Satisfaction(%)	4,4%	15.6%	15.6% Sta	ndards: ASHRAE, ANSI
Acoustic	Acoustic	Satisfaction(ny			510	
	540.95 dba	<u>)</u> 78 _%	Very Dissatisfied	Neutral Very	/ Satisfied.	%
		ATLASEN UK LTD CE0 : Jihyo	un Park Company Number : 1204	47945 71-75 Shelton Street, Londo	n, WC2H 9JQ, UK Tel +44 203	985 0890 helio@atlasen.com www.atlasen.com

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)



3.1. 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)



4.1. User Satisfaction Survey

Participate in user satisfaction survey

QuadReal 🎓 🗷 My Account logout		🚘 atlasen	😹 English 🗸 08/19, Wed 02:06 AM
QuadReal CCW	~	User Satisfaction Survey	
199 Bay Street, Toronto, ON, Canada	L	This survey aims at analyzing your overall comfort and the actions you undertake to reach this comfort. Thank you very much for your participation.	
48F : All	~	General	
1993 월 월 월 월 월 1993 - 1993 - 1993 1993 월 월 8 (1994) - 1994 1993 월 월 8 (1994) - 1994 1993 8 월 1994 - 1994 - 1994 - 1995 1993 8 월 1994 - 1994 - 1994 - 1995 - 1995 1994 - 1994 - 1994 - 1994 - 1994 - 1995 - 1995 1995 - 1994 - 1994 - 1994 - 1994 - 1995 - 1995 - 1995 1995 - 1994 - 1994 - 1994 - 1994 - 1995	l	01. How do you Office Type? Office Cubicle or Open Plan Workstation Shared Closed Office 2, 3, 4, or more Individual Closed Office etc.	
		02. How do you Office View?	
		C No View C Seated View	
		03. What building are you in (address or title)? :	
		04. What floor? :	
		05. How long have you worked here? :YearMonth	
		We really appreciate the time and effort you spent in answering this questionnaire. Thank you!	
		4 Clear All Submit 3	

- 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



5.1.0. Accessing the Alarm List menu

Click Setting icon I from the top left menu.





5.1.0. Accessing the Alarm List menu

Click Alarm List from the top menu

				Condense -	, United and a second
Alam list		Alarm List			
Building name V	Pariot 2020-11-18 - 2020-11-18 Condition Select	✓ 5e			
Total 16 alarms					
	Building name Location	Sensor ID	Sensor name	content	Date O
240 Fourth	1F - Elevator	gr_240fou_01_002	gr_240fou_01_002	themal 💌	2020-11-18 17:05 Pro
240 Fourth	1F - Elevator	qr_240fou_01_002	gr_240fou_01_002	themal 🔻	2020-11-18 16:44 Rt
240 Fourth	1F - Elevator	qr_240fou_01_002	qr_240fou_01_002	themal 🔻	2020-11-18 16:28 Rt
240 Fourth	1F - Zone 1	qr_240fou_01_001	qr_240fou_01_001	•	2020-11-18 14:03 Pro
240 Fourth	1F - Zone 1	gr_240fou_01_001	qr_240fou_01_001	•	2020-11-18 14:03 Pro
240 Fourth	1F - Zone 1	qr_240fou_01_001	qr_240fou_01_001	lighting 🔻	2020-11-18 14:03 Pro
240 Fourth	1F - Elevator	gr_240fou_01_002	gr_240fou_01_002	•	2020-11-18 14:00 Pro
240 Fourth	1F - Elevator	qr_2405ou_01_002	gr_240fou_01_002	lighting 🔻	2020-11-18 14:00 Pro
240 Fourth	1F · Elevator	qr_240fou_01_002	qr_240fou_01_002	air 🛦	2020-11-18 14:00 Re
240 Fourth	1F - Elevator	qr_240fou_01_002	qr_240fou_01_002	themal 🔻	2020-11-18 11:38 Re
240 Fourth	1F - Elevator	qr_240fou_01_002	qr_240fou_01_002	air 🔺	2020-11-18 10:24 Pro
240 Fourth	1F - Elevator	qr_240fou_01_002	gr_240fou_01_002	themal 🔻	2020-11-18 08:59 Rd
240 Fourth	1F - Zone 1	qr_240fou_01_001	gr_240fou_01_001	themal 🔺	2020-11-18 05:53 Rd
240 Fourth	1F - Elevator	qr_240fou_01_002	qr_240fou_01_002	themal 🔻	2020-11-18 04:41 Re
240 Fourth	1F - Zone 1	gr_240fou_01_001	gr_240fou_01_001	themal 🔺	2020-11-18 04:23 Re
	1F - Zone 1	qr_240fou_01_001	qr_240fou_01_001	air 🔺	2020-11-18 01:37 Rr

5.1.1. Alarm List menu

Display information about alarms.

	Total 14 alarms Building name	Location	Sensor ID	Sensor name	context	Date Con
C	240 Fourth	1F - Elevator	qr_240fou_01_002	qr_240fou_01_002	themal 🐨	2020-11-18 16:28 Proci
—	240 Fourth	1F - Zone 1	qr_240fou_01_001	gr_240fou_01_001	*	2020-11-18 14:03 Proce
	240 Fourth	1F - Zone 1	qr_240fou_01_001	gr_240fou_01_001	*	2020-11-18 14:03 Proce
	240 Fourth	1F - Zone 1	qr_240fou_01_001	gr_240fou_01_001	lighting 💌	2020-11-18 14:03 Proce
	240 Fourth	1F - Elevator	qr_240fou_01_002	gr_240fou_01_002	•	2020-11-18 14:00 Proci
	240 Fourth	1F - Elevator	qr_240fou_01_002	qr_240fou_01_002	lighting 🔻	2020-11-18 14:00 Proce
	240 Fourth	1F - Elevator	qr_240fou_01_002	gr_240fou_01_002	air 🛦	2020-11-18 14:00 Proci
	240 Fourth	1F - Elevator	qr_240fou_01_002	qr_240fou_01_002	themal 🔻	2020-11-18 11:38 Res
	240 Fourth	1F - Elevator	gr_240fou_01_002	gr_240fou_01_002	air 🛦	2020-11-18 10:24 Proci
	240 Fourth	1F - Elevator	qr_240fou_01_002	gr_240fou_01_002	themal 🔻	2020-11-18 08:59 Res
	240 Fourth	1F - Zone 1	qr_240fou_01_001	qr_240fou_01_001	themal 🔺	2020-11-18/05:53 Res
	240 Fourth	1F - Elevator	qr_240fou_01_002	gr_240fou_01_002	themal 🔻	2020-11-18/04:41 Res
	240 Fourth	1F - Zone 1	qr_240fou_01_001	qr_240fou_01_001	themal 🔺	2020-11-18/04:23 Res
	240 Fourth	1F - Zone 1	gr_240fou_01_001	gr_240fou_01_001	air 🛦	2020-11-18 01:37 Res

- 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



<complex-block>

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

🔁 atlasen 1 🗰 triglich 🗸 👔 testő 🛛 Dashboard 🗦 Survey Result Survey Management Building Name 👻 Result 17 test2 Selected items V Delete

5.3.1. Survey Type Display Survey by type menu 🔁 atlasen ΰÓ Dashboard J 4 🖼 English 🗸 🕕 testő Survey Survey Type Management 5-2 atlasen uner Satisfaction Surv Building Information Survey Survey Short ^{Survey} Medium IL Wat is your general thermal senation of O Cost O Cost O Supervised ::: \equiv \equiv Print Print Print 34. Pinic 15. Per

A. Button to display the questionnaire



17. Now

5.4.0. Ac IEQ da	cessing the Click IEQ of ta menu	lata from the top menu				
🔀 atlasen			🗮 English 🗸	test6	Dashboard Logout	
Statistics	IEQ data Building V Floor All V Zone All V Sensor All V Select Project V	Building Attributes data Puncel Comparison by building				
Comparison by building						

5.4.1. IEQ data menu

🔁 atlasen		🖽 🗹 í A 🗇	English v Master Dashboard Jugot
Statistics Didrig Atributes data Compliance Companient by building	IEQ data	Pro: 1 Day 1 Week 2021-04-22 2021-04-22 10 zert	C3/ download
A.	Search Criteria - Enter the building name, floo	r, zone, sensor and period.	

- B. Button to show search results
- C. Button to download data in an excel file



5.5.0. Ac Buildir data m	cessing the ng Attributes nenu	Click Build	ing Attributes da	ta from the top men	iu	
🔀 atlasen			H 🕈 🛍		🗮 English 🗸 🌒 te	st6 Dashboard ->]
Statistics	IEQ data Building Y Floor All	♥ Zone All ♥ Sensor All♥	IEG data Building Atmbutes da Percel 10ay 1 Companie Companison by building	20-11-18 Q CSV download		
5.5.1. B Attri menu	Suilding butes data					
🔁 atlasen			H 🗹 🛍		📾 English 🗸 🕖	estő Dashboard Jogout
Statistics	Building Attributes data	A 200 King Street West 200 King St	treet West 240 Fourth Q Save a	C Excel		
Building Attributes data Building Attributes data Comparison by building	Total D building name Registration date number of S	System control staff Core system, year majo	or maintenance Core system type level of control	open-plan office Control level of closed office/meeting nom	Diffuser density Diffuser alignment	Exterior system management Typ

- 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

🔁 atlasen 🗄 🗹 🛍	English v Dashboard Jogost
Statistics Compliance	

- 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 managent 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





Indoor Environmental Quality

www.atlasen.com

hello@atlasen.com



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