FOROMA

LIGHTING & WORKPLACE

FORUM HUB™

INTELLIGENT LIGHTING SOLUTIONS

FORUM HUB ™

GIVING THE GREEN LIGHT ON INTELLIGENT LIGHTING SOLUTIONS

At Foroma we are leading the way in LED smart technology and remote monitoring, which is driven by an imperative ESG need for building owners to reduce energy consumption whilst managing lighting assets throughout their life.

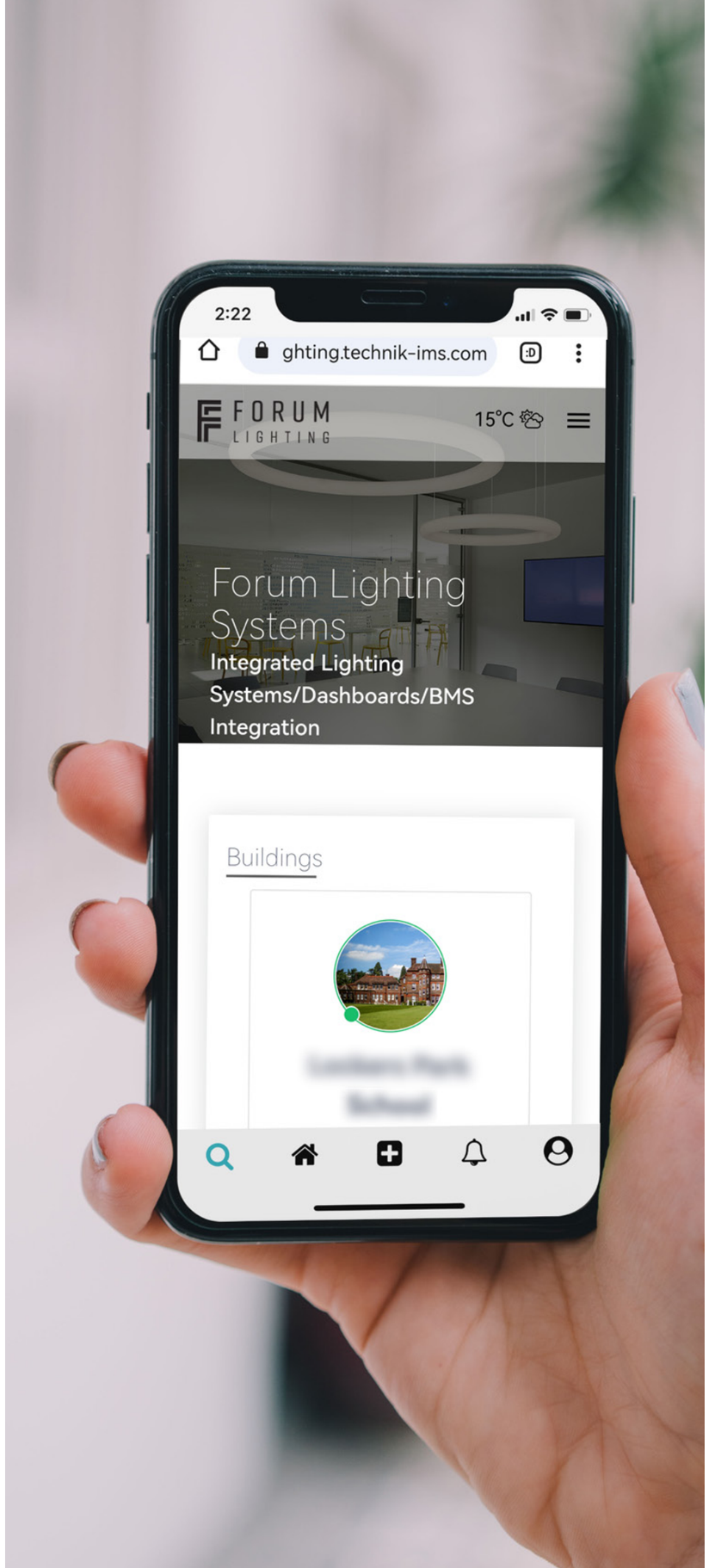
OUR MISSION IS TO PROVIDE CUTTING-EDGE LED TECHNOLOGY AND SMART MONITORING SYSTEMS THAT REDUCE ENERGY CONSUMPTION AND ENHANCE THE PERFORMANCE AND LONGEVITY OF THE LIGHTING ASSET.

We have developed a proprietary smart building platform that gives the end user fully remote luminaire data access and controllability, collaborating with large estate users and operators.

We are passionate about advancing the lighting industry with smart and sustainable solutions that meet the needs and expectations of our clients.

INTRODUCING
FORUM HUB™

1. PROVIDE
2. DESIGN
3. VISUALISE
4. COLLABORATE



1 PROVIDE

- The Engineering and Facilities team with a remote lighting interface
- An open protocol Graphic User Interface
- The Facilities team with a way of remotely monitoring their lighting energy demand
- A futureproof system with capabilities for expansion

2 DESIGN

- A platform that aids the maintenance team in carrying out emergency tests and checks by enhancing the data made available from Tridonic's sceneCOM
- The sceneCOM BACnet feature to enable a BMS interface for the lighting controllers currently controlled by the BMS head end
- An interface that has the future capability of exporting energy data via REST:API, MQTT and BACnet

3 VISUALISE

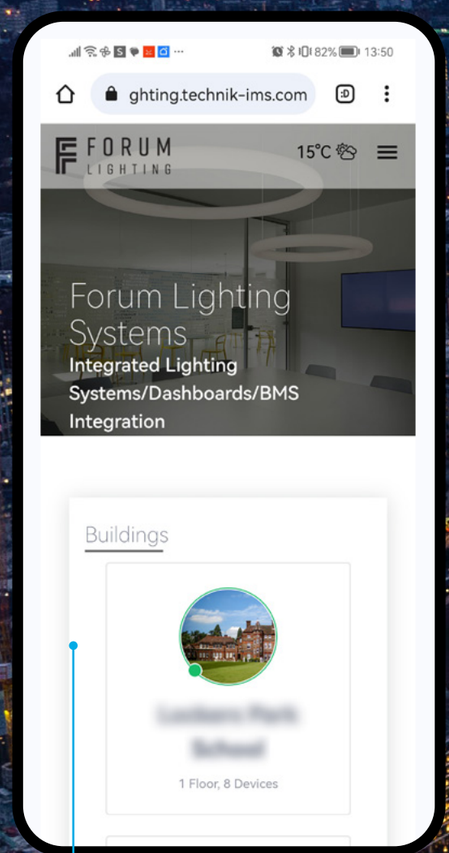
- Tridonic's sceneCOM evo + emergency license which creates a backup log of all emergency tests and checks

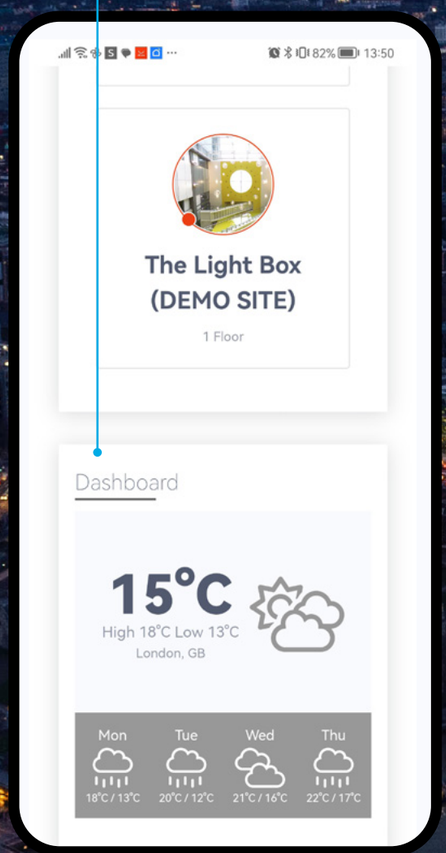
4 COLLABORATE

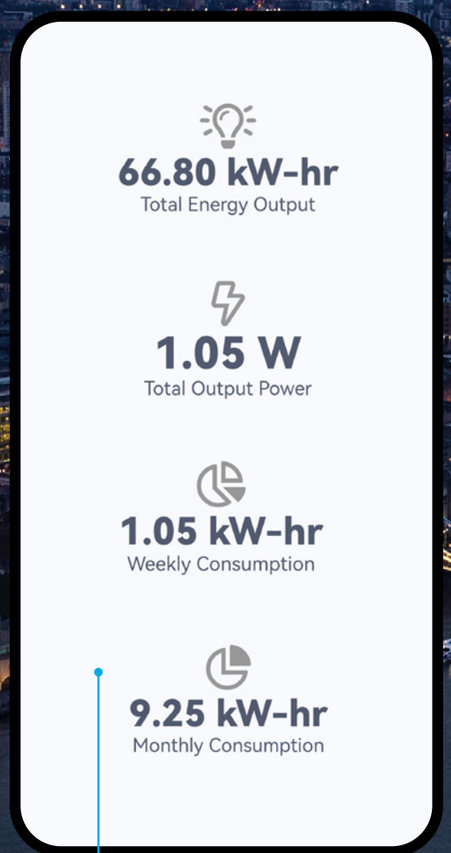
- Collaborate with the site's engineering team during commissioning to assist in the self-delivery of lighting control modifications
- To adopt a collaborative approach to commissioning and training
- To continually invest in the development of innovative technologies to benefit your interests

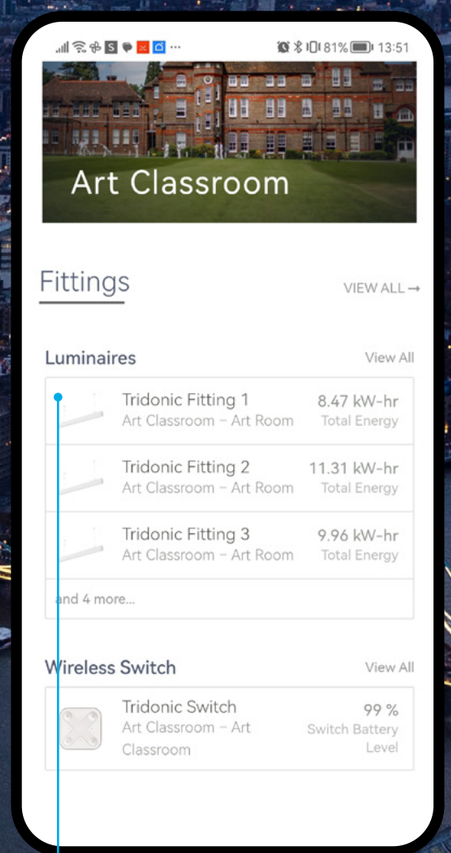
INTRODUCING
FORUM HUB™

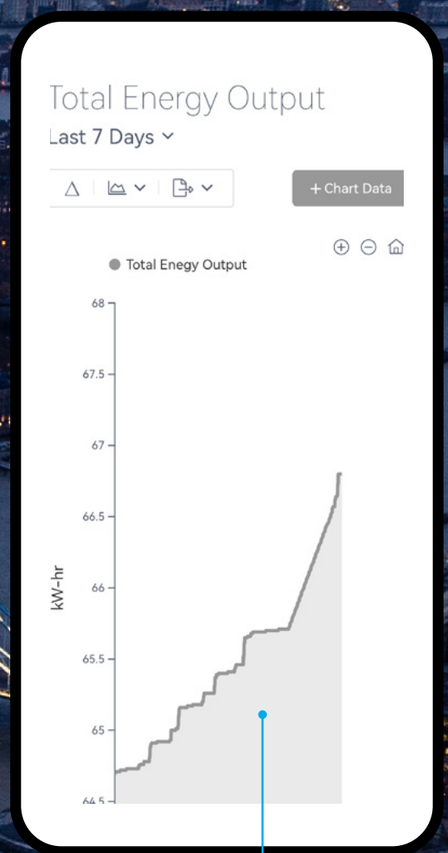
DASHBOARD PROVIDES A VISUAL OVERVIEW OF INSTALLATION METRICS











CAPABLE OF MANAGING MULTIPLE BUILDINGS IN YOUR INSTALLATION:

- Plug and play functionality
- Operational scalability and transparency
- Improve business process from planning and development through to maintenance
- Remote access easily without the need for complex integrated networks

DASHBOARD DIAGNOSTICS

EXAMPLE OF CASE STUDY UTILISED AT LOCKER PARK SCHOOL

EASILY ASSESS ENERGY OUTPUT OVER LAST WEEK / MONTH

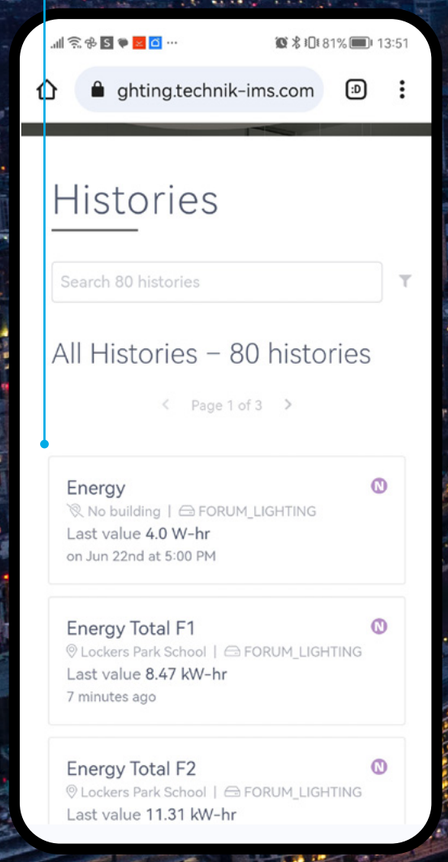
INTRODUCING
FORUM HUB™

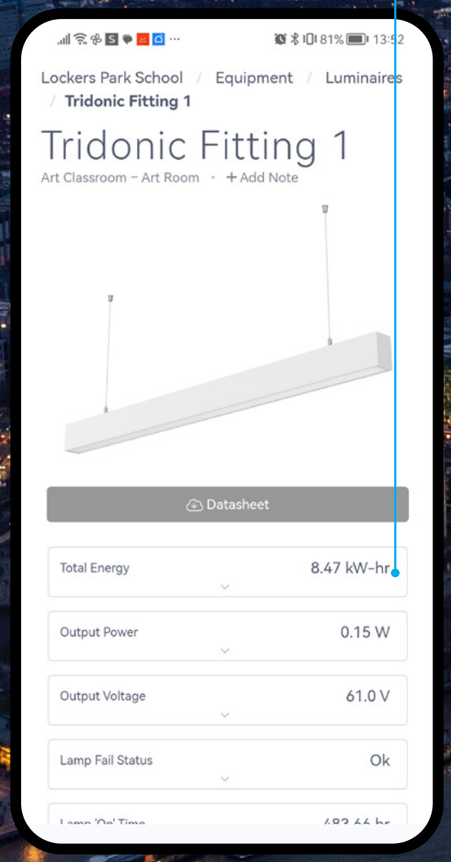
CAN QUICKLY ASSESS WHEN A LUMINAIRE WAS LAST REPLACED

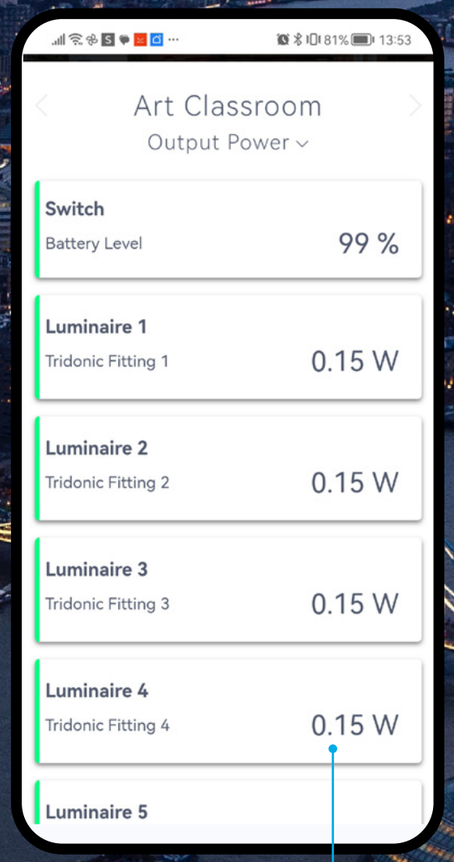
COMPREHENSIVE DATA SHEET PER LUMINAIRE

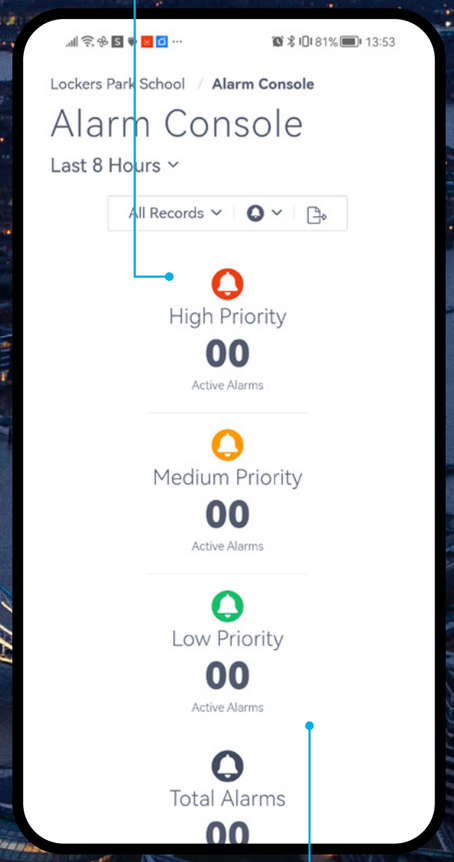
REAL TIME UPDATES FROM SWITCH INPUTS

REGULAR UPDATES AS TO WHEN A FAILURE IS IMMINENT





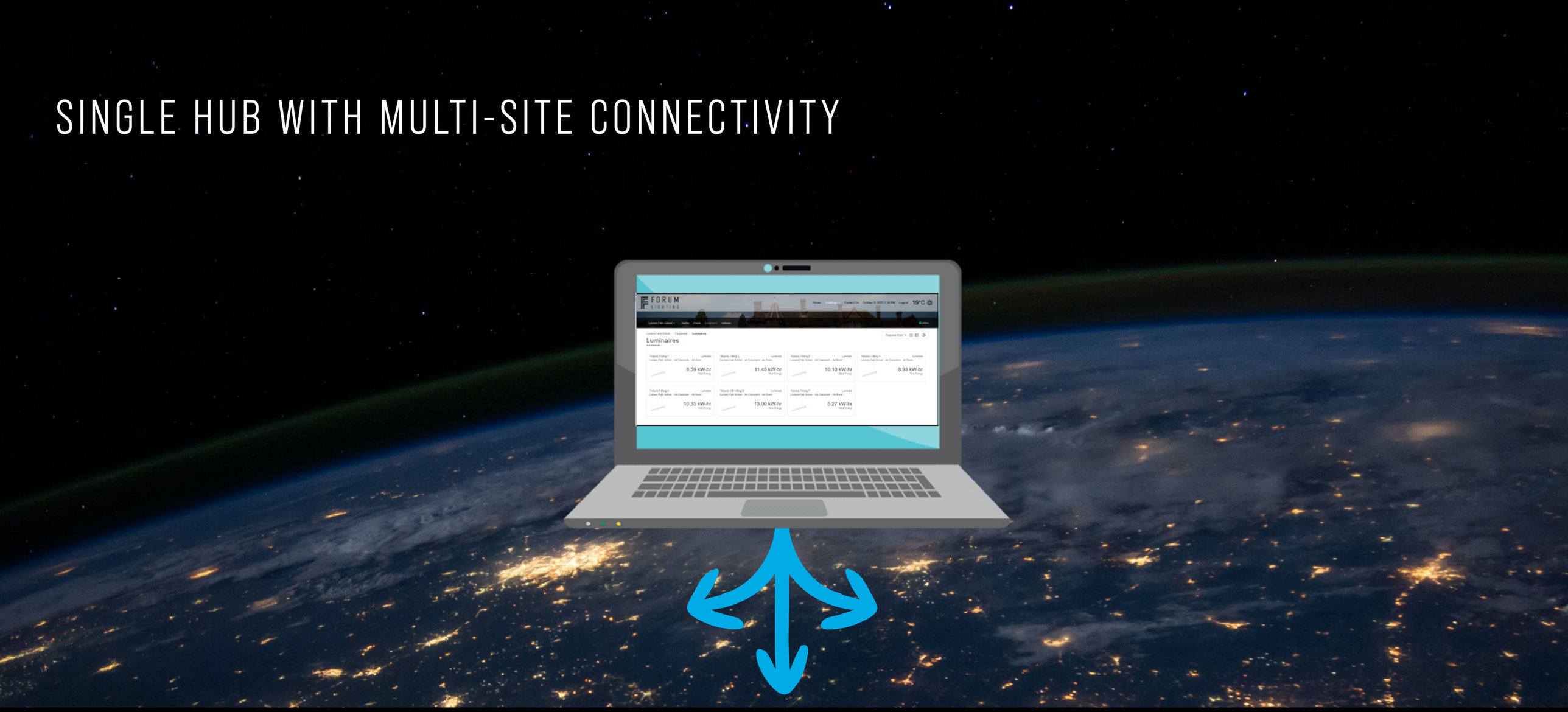




IDENTIFIES POWER INPUT PER LUMINAIRE

sceneCOM API DISPLAYS RESULTS OF EMERGENCY TESTS, THIS IS CONTROLLED LOCALLY AT **scene**COM LEVEL.

SINGLE HUB WITH MULTI-SITE CONNECTIVITY



Designed with the flexibility to accommodate all configurations, the Forum Hub™ has applications for industries as diverse as education, healthcare, government, manufacturing, sports arenas, hotels and retail.

COMMERCIAL BUILDINGS

SHOPPING CENTRES

HOSPITALS

EDUCATION FACILITIES

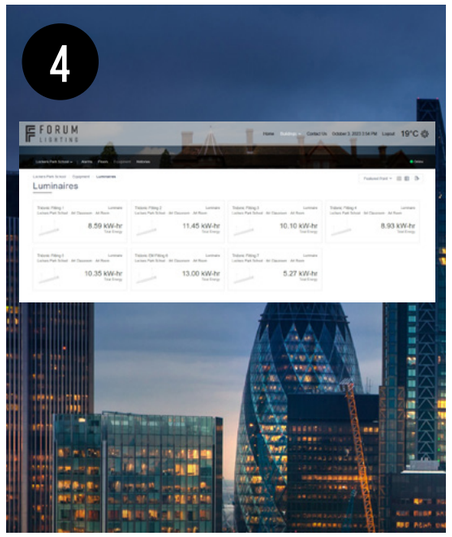
HOSPITALITY

DISTRIBUTION CENTRE/ FACTORY

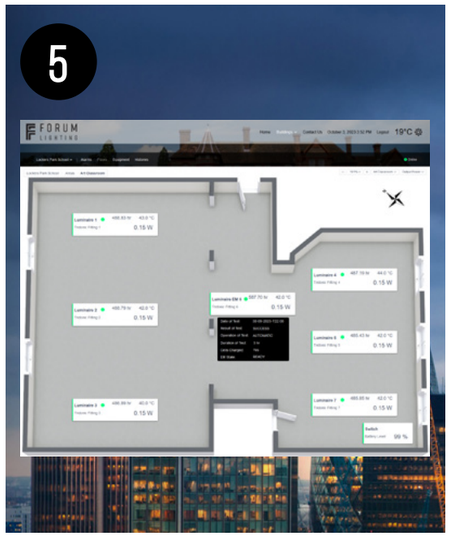
We use open protocol Remote Monitoring System infrastructure and the Tridonic Building 360 platform.

This enables us to integrate with the BMS so that that emergency lighting tests can be conducted automatically using Tridonic's sceneCOM EVO system architecture and the Tridonic Building Asset360 market approach.

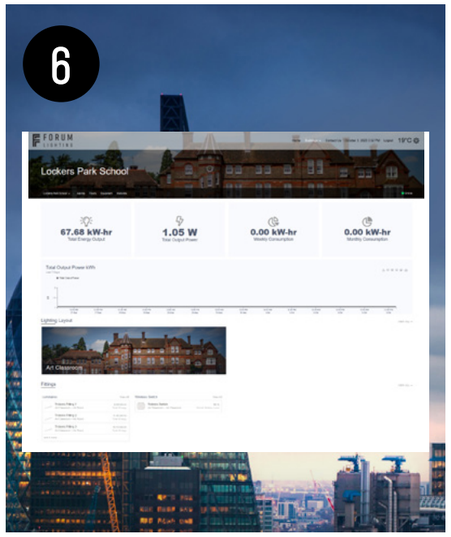
This maximises lighting management effectiveness and supports labour efficiencies.



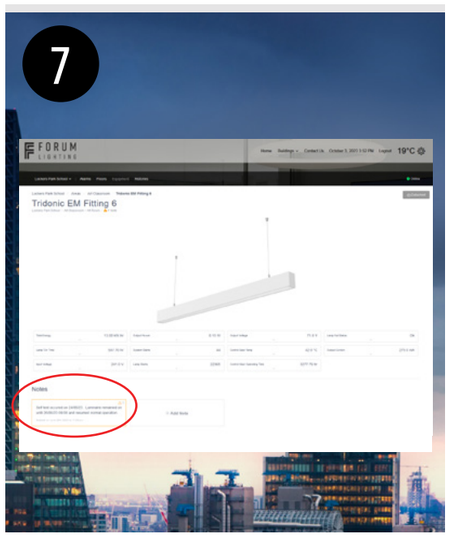
Enhanced asset lifecycle by addressing electrical anomalies and monitoring temperature fluctuations.



The **3D floor plans** allow the Engineering Team to view emergency lights down to individual fittings - highlighting luminaires that have failed their automated emergency light test or are close to their predetermined limits.

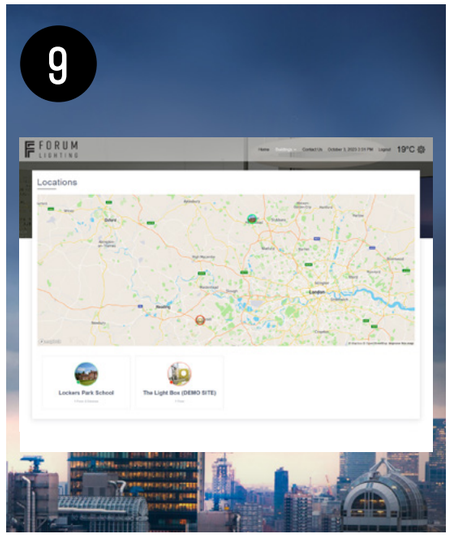


The **dashboard** containing this information is fully customisable and alerts can be sent to the Engineering Team by email or CAFM notification.

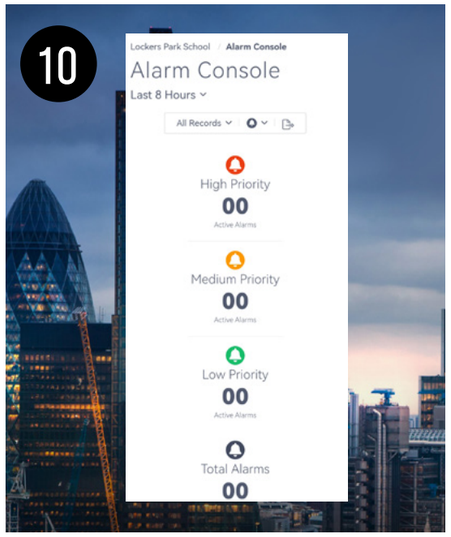


The ability to **pre-empt failures**, conduct diagnosis of the cause of failure and plan works more effectively and proactively.

The ability to **monitor total energy usage** associated with the emergency lighting – as well as the output power of each fitting.

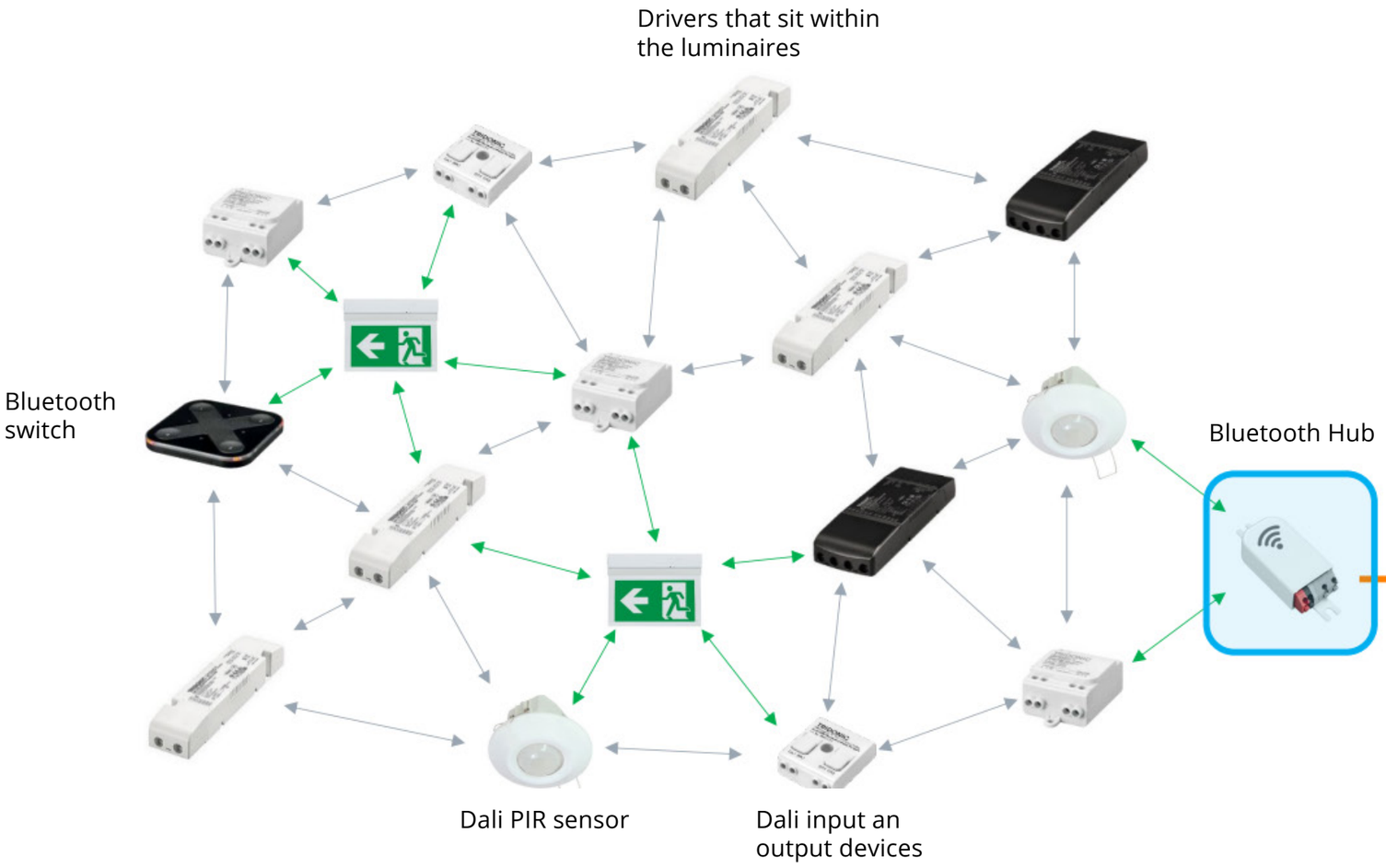


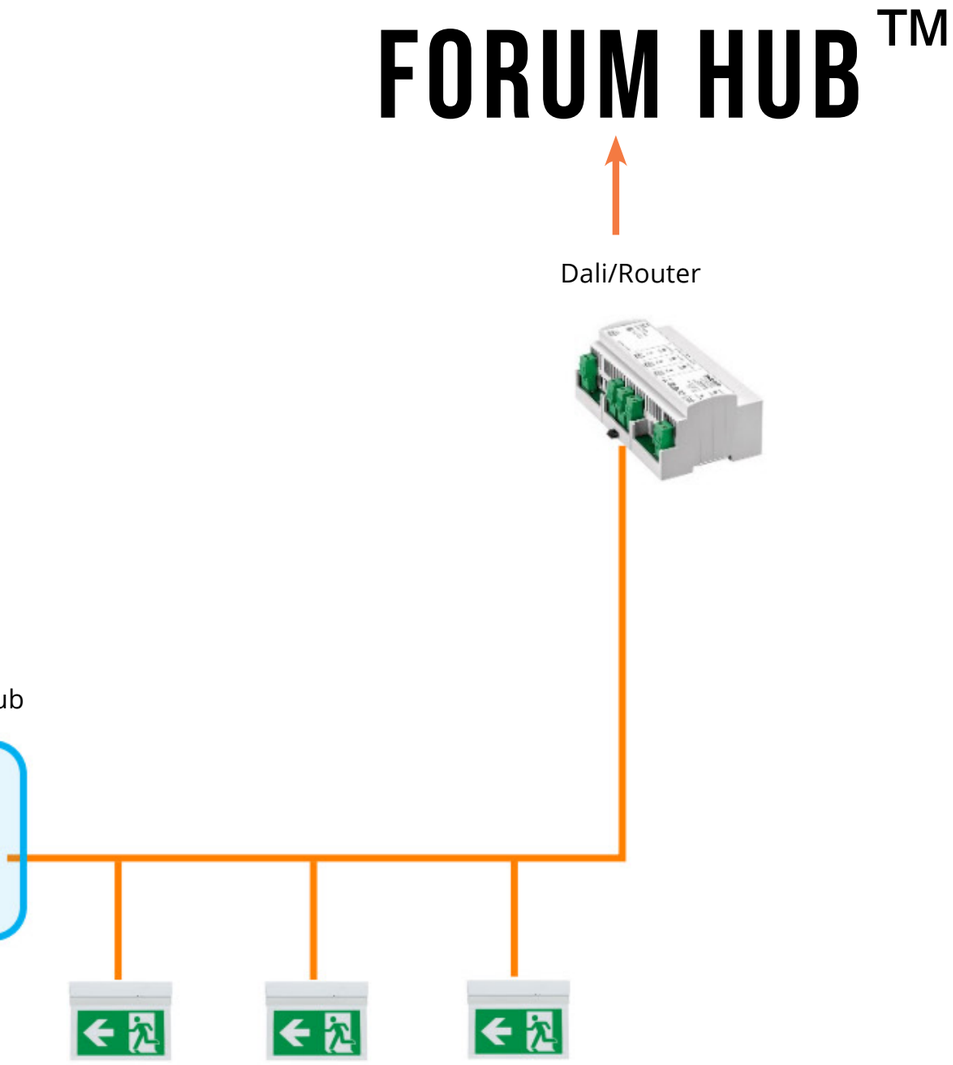
A futureproof system with capabilities for **expansion**. (Potential to manage multiple properties)



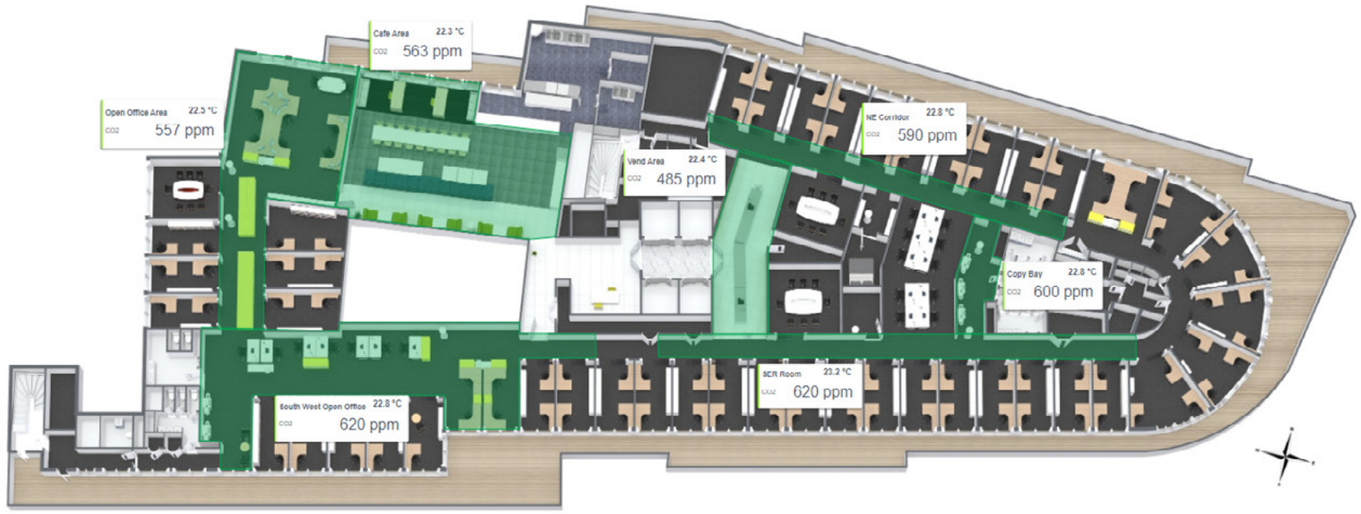
A back up log of all **emergency tests and checks** for compliance purposes.

HOW THE **FORUM HUB™** SYSTEM WORKS

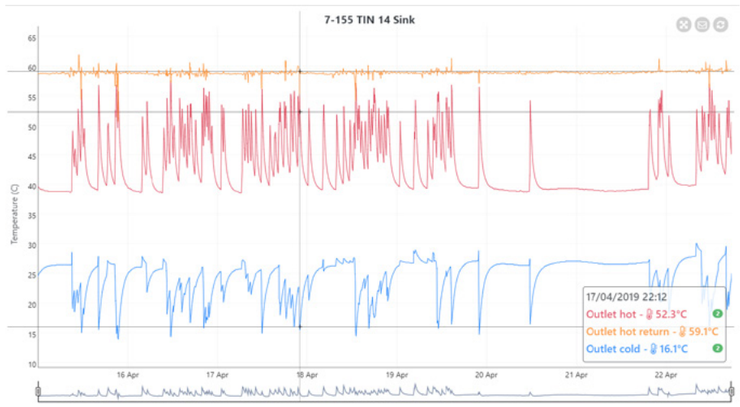


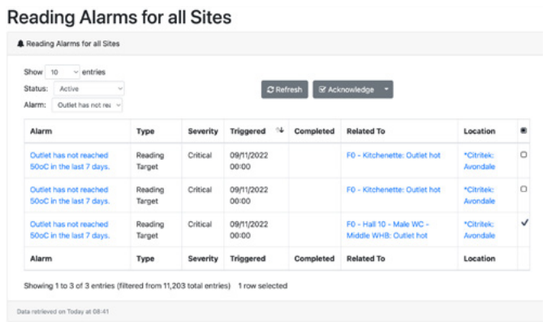


Forum HUB™ utilises open protocol Remote Monitoring System applied to the Building 360 platform which enables the emergency lighting tests are then logged automatically. Each luminaire communicates via Bluetooth through the integrated driver to the remote sceneCOM unit. Each sceneCOM will accommodate one hundred and ninety-two separate fittings. The sceneCOM then relays the LUMDATA back to the cloud storage offering infinite data. Any deviations from the set parameters will be alerted to the designated team either on or off site via SMS or e-mail. The 3D floor plans allow the Engineering Team to view emergency lights down to individual fittings - highlighting luminaires that have failed their automated emergency light test or are close to their predetermined limits.



The hub can merge with both off and on premises solutions which allows customers the flexibility in terms of choosing localised wireless Indoor Air Quality solutions to capture real time on floor data of occupancy, which can then be co-opted with the BMS to provide demand to the HVAC systems, maximising energy efficiency of the main plant.





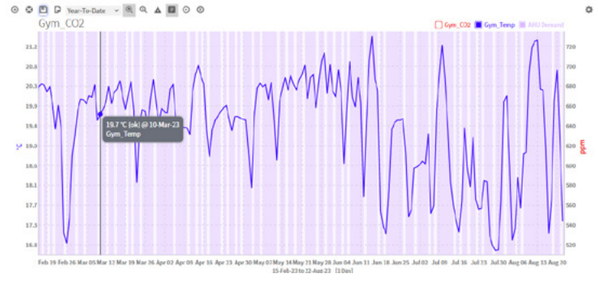
HVAC AND WATER TEMPERATURE MANAGEMENT

INTEGRATED DEMAND DRIVEN STRATEGY & CBM (CONDITION BASED MONITORING)

Our application has been designed to complement a building's demand driven strategy, whether this be existing or for future integration.

Our solution also provides the user with a solution in collaboration with industry leading specialists, to remotely monitor domestic water systems, which not only enhances a site's water risk management plan but also alleviates unnecessary physical labour hours.

Air quality sensor and graphical output



BAN ON MANUFACTURE OF NON-LED PRODUCTS

LED LIFETIME CHARACTERISTICS

Compare and contrast the lifespan and power consumption for the available lightbulb options.

	Incandescent	Halogen	CFL	LED
Lifespan (hours)	750 - 2,000	3,000 - 4,000	8,000 - 10,000	35,000 - 100,000
Power Consumption	100W 75W 60W 40W	70-72W 53W 43W 18-29W	23-26W 18-20W 13-15W 10-11W	16-20W 9-13W 12W 8-9W

Halogen light bulbs banned from September 2021 – with fluorescent light bulbs to follow suit.

Shift to LED bulbs within the UK market will cut 1.26 million tonnes of CO_2 emissions – the equivalent of removing over half a million cars from UK roads.

New rules are part of tighter energy efficiency standards for electrical appliances, helping consumers save on their energy bills.

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