DYNAMIC DATA CAPTURE, ANALYSIS and VISUALISATION for INTELLIGENT BUILDINGS



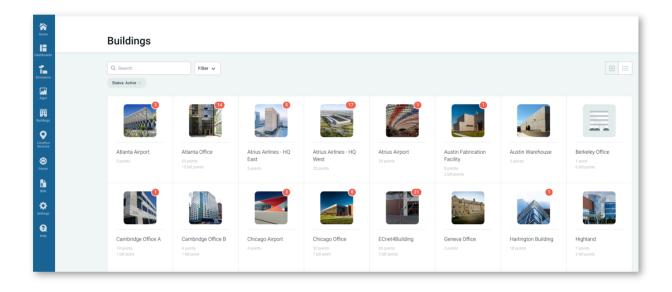
for occupant satisfaction, lower emissions and higher profits

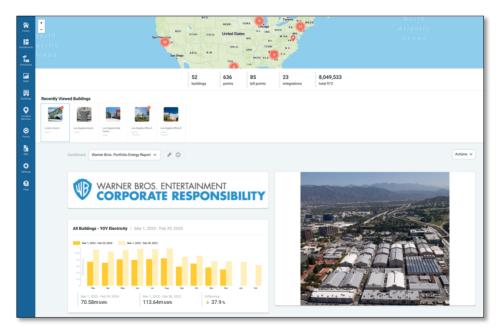
DYNAMIC DATA CAPTURE, ANALYSIS and VISUALISATION for INTELLIGENT BUILDINGS

High Performance Cognitive Building Solutions

The software team have engineered the first cradle to grave Cognitive Asset Solution with Ai, to upgrade and overlay conventional BMS/EMS/CNS and Project solutions.

The embedded science enables the Ai to accelerate asset analysis and performance through continual monitoring, optimisation, commissioning and control, on a micro-incremental basis to satisfy the desired comfort and well-being setpoints, whilst optimising the energy efficiency and sustainability of the building's equipment, thus lowering operational costs.







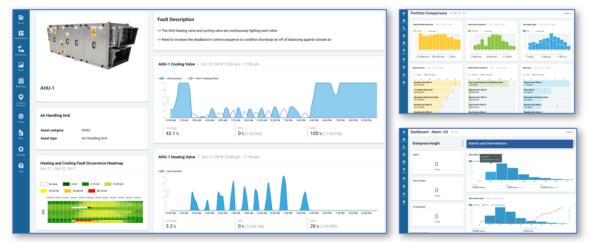
DYNAMIC DATA CAPTURE, ANALYSIS and VISUALISATION for INTELLIGENT BUILDINGS

Data Quality, Integrity, Automated Utility Bill Collection and Validation, with Data Audit Trail & Compliance

Stakeholders' dashboards with integrity and honesty

ta Qua		er Replacements - Duplicate Stateme	nta Duralente NU	teatives Arrest Description	stora di	vos hiepelioti		
ich Ion: Obviue	Filter v All Sine v Actions	IV.						
100% of	57 points	99% across 57 points 87 across 6 points		2,51 Protect	2 across 3	0 points		
ubling	Point	7,04	Integration	Completeness (1)	Caps	Epites	Failers	Status (1)
bane	Beltroom Gall For Hele System	October 2018	Steine	100%			59	🗸 Onine
bune	BCM and Voltage Menhoing	Decembry	Obeine .	100N		0	62	🗸 Online
faint	Channel #10 Energy	Dectricity	Steine	99%		0	55	✓ Online
ane	Stoulator Parce	Electricity	Stenus	100%			22	🗸 Onine
ibune	Context-N Wall	👌 indoor temperature	Obvios.	100%		0	0	🗸 Onine
foot	Dust Heater 1	Dechicity	Steins	100%		0	44	🗸 Online
lace	Dust.Healer.2	October 2018	Steine	99%		0	0	🗸 Onine
fluor	Energy Recovery Unit 1	Slecticity	<u>Obrius</u>	100%		0	-64	🗸 Onine
ane	Dec.Alem	Dechicity	Steins	100%		0	63	🗸 Onine
	Gris. 8x8.52G	Deciricity	Stelus	99%		0	0	🗸 Online
Island	anna anna anna an							

Asset Monitoring, **Optimisation**, **Control**, **Well-Being**, **Reporting and Alerting** Automated notifications and email reporting



Emissions Reporting Scope 1,2 & 3

Track, monitor, and reach your emission reduction goals with audit & data quality features

Horne	Common Sources of Greenhouse Gas Emissions	Portfolio CO2 Emissions: Total Emissions (Mt CO2e) / Last 12 months compared to previous period
Deshtooards		5ep 1.502 - Aog 31.2003 5ep 1. 2021 - Aog 37. 2022
Tin Errissions	And at Eagent Party and Pa	i del si si al al ana ana adal al a
A695	Farmer and the farmer	500 CC Nov See Jan Feb Mar Apr May Jan Jal Ang
Duidings	SCOPE 1: SCOPE 2: SCOPE 3:	Sep 1, 2022 - Aug 31, 2023 Sep 1, 2021 - Aug 31, 2022 Difference
Q Location Services	Greenhouse Gas Scope	38,3951 CO2e 52,2031 CO2e 4 26.45 %
ee Points	Scope 1 GHG Emissions: direct emissions from sources that are owned or controlled by the Company, including vehicles and equipment, stationary sources, and on-site landfills and water treatment	Scope 1 GHG Emissions: (Mt CO2e) / Last 12 months compared to previous period
8		4ug 1, 2022 - Jul 31, 2023 4ug 1, 2021 - Jul 31, 2022
549	Scope 2 GHG Emissions: indirect emissions from sources such as purchased electricity, purchased, heating/cooling, and purchased	
۰.	steam.	
Settings	Scope 3 GHG Emissions: sources not owned or directly controlled the	
0	Company, including business travel, employee commuting, and contracted solid waste disposal and wastewater treatment.	
Help		aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul
		Aug 1, 2022 - Jul 31, 2023 Aug 1, 2021 - Jul 31, 2022 Difference
		US\$168,572 US\$190,657 🗸 11.58%
	Carbon Emissions	
	Carbon Dioxide (CO2): Carbon dioxide enters the atmosphere	Portfolio CO2 Emissions: Total Emissions (Mt CO2e) / Last 12 months compared to previous period





DYNAMIC DATA CAPTURE, ANALYSIS and VISUALISATION for INTELLIGENT BUILDINGS

Occupant Engagement with Public Dashboards

Improve transparency, motivate action, and hold your organization accountable to meeting your goals.



Global Clients Core Platform

	Building Long E Performance Control Co	Interprise Operations	Personal Experiences
	Vertical H	ighlights	
Enterprise	Education	Aviation	Partners
Rother Immediate Image: Constraint Image: Constraint Image: Constraint Image: Constraint	Image: Name of the state of	UNITED OF CONTROL OF C	CUSTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTECH CONTEC

Global platform current building count: 10,969 | Total global building area: 704,724,388 sq.ft. Total building count in UK: 205 | Total building area in UK: 654,154 sq. meters or 7,041,256 sq.ft. Implementation is project dependant, but can be as little as a few days.

Intelli-Focus creates a single, unified source of truth for your buildings' performance, energy and sustainability.

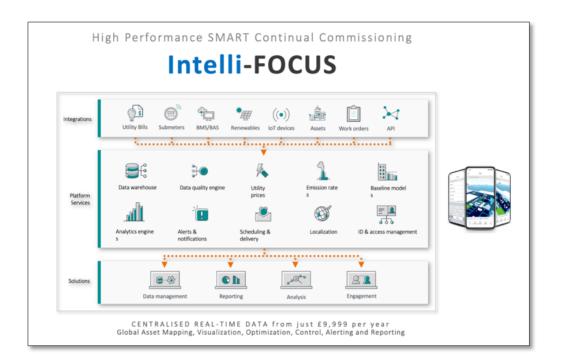




DYNAMIC DATA CAPTURE, ANALYSIS and VISUALISATION for INTELLIGENT BUILDINGS

High Performance Cognitive Building Solutions with Ai

The solution utilises the latest Apex controller with connected devices and open protocol data to establish connection to the buildings network of data devices. The data is then interrogated and streamed to our Intelli-Focus CLOUD using a TOSI box VPN, for military grade security, ensuring your data remains safe.



- On-board AI accelerator, designed to run artificial intelligence and machine learning applications at the edge, adding intelligence to any building.
- Wired, Wireless Lora and WiFi devices for energy measurement, heat meters and remote sensing.
- Available Docker container and Azure IoT Edge technologies extend gateway features at the edge.
- Communication protocols include BACnet MS/TP, Modbus RTU, Modbus TCP, and M-Bus and MQTT are supported to ensure ease of communication, authentication, and error detection.
- Embedded RESTful API to exchange data from different applications, such as energy dashboards, analytics tools, and mobile applications, on premise or from the cloud with the IoT Hub connector.
- Retro-Fit project analysis, ROI







DYNAMIC DATA CAPTURE, ANALYSIS and VISUALISATION for INTELLIGENT BUILDINGS

Product Specifications

Power Supply Input (24VAC)

Input Voltage Range 24VAC; ±15%; Class 2 Power Consumption 75VA maximum; internal and

Recommended Transformer 100VA Size

> Frequency Range 50 to 60Hz Power factor >90%

Power Supply Input (24VDC) Input Voltage Range 24VDC; ±15%; Class 2

Power Consumption 75W maximum; internal and external loads included Minimum Power Supply Size 60W Startup Inrush Current 4A for 50ms

Current Limits

Power Supply Input 4A (internal fuse) I/O Modules 1000mA (18.8W) Subnet 450mA (8.5W) USB 3.0 900mA per port USB 2.0 500mA per port

Communications

Hardware

BACnet Interconnectivity BBMD forwarding capabilities BACnet Transport Layer BACnet MS/TP or Modbus 1x RS-485 serial

Ethernet Connection Speed 10/100/1000 Mbps Addressing IPv4 or Hostname BACnet Profile BACnet Building Controller (B-BC), AMEV AS-A and AS-B BACnet Listing BTL, WSP B-BC (pending)

external loads included

BACnet MS/TP to BACnet/IP BACnet/SC routing (pending) IP, SC (Node) (pending), and MS/TP (optional) RTU communications port Web Server Protocol HTML5

32GB Flash (20GB usable)

Supports SNTP network time synchronization

20 hours charge time, 20 days

discharge time Up to 500 charge / discharge

2x RJ-45 Ethernet ports (10/100/1000 Mbps)

2x USB 3.0 Type-A Ports; 900mA per port

1x USB 2.0 Type-C; Dual role data, 500mA per port Intrusion Input Digital (dry contact) - for future use only

Hailo-8 Accelerator Module

Power status, Subnet TX

RS-485 TX, and Ethernet Traffic/Speed

Controller status, Alarm, Subnet RX, RS-485 RX, and Ethernet

6.5 TOPS (tera-operations per

Available only for the ECLYPSE APEX with ECLYPSE Building Intelligence software Subnet 1x RJ-45 connector for subnet

Real Time Clock with

rechargeable battery

Microprocessor Quad core 1.6 GHz ARM Cortex A53 64 bit

cycles

second)

bus

Speed

Memory

RTC Battery

Ethernet

USB Connections

AI Coprocessor

Green LED

Orange LED

Real Time Clock (RTC)

2GB RAM

Web Server Application REST API Interface RS-485 Wiring 1 pair + common/shield RS-485 EOL and Bias Resistor Slide switch selectable RS-485 Baud Rates 9600, 19 200, 38 400, or 76 800

Modbus TCP Devices must be on the same Wireless Adapter Optional, USB Port Connection Wi-Fi Communication Protocol IEEE 802.11b/a/n Wi-Fi Network Types Client, Access Point, Hotspot

bps

subnet

Ethernet Port Configuration Switch Subnetwork

- Maximum number of standard 12 room devices supported per controller combined
- Allure EC-Smart-Vue Series² 12 Allure FC-Smart-Comfort 6 Series
- Allure FC-Smart-Air Series² 6
- EC-Multi Sensor 4 ECx-Light-4 / ECx-Light-4D / 2
 - ECx-Light-4DALI
- ECx-Blind-4 / ECx-Blind-4LV / 2 ECx-Blind-4SMI / ECx-Blind-4SMI-LoVo
- Maximum number of Bluetooth 6 low energy room devices per controller combined ³
 - Allure UNITOUCH[™] 2
 - EC-Multi-Sensor-BLE 4
- 2
- For more details about supported quantities, see the Product Selection Tool available in Builder: https://builder.distech-controls.com. A controller can support a maximum of 2 Allure sensor models equipped with a CO₂ sensor. Any remaining connected sensors must be without a CO₂ sensor. A mixed architecture with standard room devices and Bluetooth low energy enabled devices is not recommended. 3

Open-to-Wireless Adapter

Communication Protocol EnOcean wireless standard Connector Type USB

Number of Wireless Inputs Unlimited²

enocean

- Available when an optional external ECLYPSE Open-to-Wireless Adapter is connected to the controller. Refer to the Open-to-Wireless Application Guide for a list of supported EnOcean wireless modules. 2
- Wireless inputs will only be limited by physical distance between the EnOcean devices and the ECLYPSE Open-to-Wireless Adapter.

Mechanical Dimen

ensions (H × W × D)	5.54 × 8.52 × 2.30" (216.42 × 140.29 × 58.54mm)
Shipping Weight	1.8lbs (0.82kg)
Mounting	DIN rail or screw mounting
Enclosure Material	Flame retardant/Poly-carbonate (FR/PC)
Enclosure Rating ¹	Plastic housing, UL94-5VB flammability rating
Is and manufacturing proce	sses comply with the RoHS directive and are

ked according to the Waste Electrical and Electronic Equipment (WEEE) directive

adamska and Damslaffam. Sta

			2007+A1:2011
	CE I	mmunity	EN61000-6-1: 2007
		IEC	IEC 63044-5-1 (2017) IEC 63044-5-2 (2017)
		FCC	Compliance with FCC rules part 15, subpart B, class B
ICE	S Cor	npliance	ICES-003
UL Liste	ed (CD	N & US)	UL916 Energy management equipment
F©	UK CA	CE	COULS WOHS 🌋



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Ingress Protection Rating IP20 Nema Rating

Operating Temperature 32 to 122°F (0 to 50°C) Storage Temperature -22 to 158°F (-30 to 70°C), Relative Humidity 0 to 90% non-condensing 1

Note. Each unit is bespoke to the project and the complete specifications will be published prior to assembly

(BIL)



