



REACTA-CONTROL

AN INTRODUCTION TO REACTA CONTROL

Reacta Control is a single scalable solution to bring complete wireless control to your lighting installation with multiple tiers of functionality.

The Reacta Control range encompasses components which enable everything from local wireless control through to full lighting management systems. At its most simple level Reacta-Control offers wireless drivers, switches and sensors enabling dimming and scene control without the need to install control cabling. At the highest level Reacta-Control enables this wireless connectivity combined with centralised reporting of your lighting for failures, power consumption and emergency testing amongst many other features.

Reacta-Control can be tailored to your needs with any combination of wireless sensors, drivers, switches and gateways required to give the level of functionality desired from a single system and commissioning app ensuring consistency and simplicity across your project.



Wireless connectivity suits retrofit applications



Simple graphical user interface



A comprehensive range of wireless sensor options



Full emergency testing and fault reporting



Manage your lighting from a central PC



Easily extended system

OPERATION

Presence detection
Daylight regulation
Grouped mains operation
Wireless wall switching
White tunable
Local Control Key Fob
Local Control Mobile App

REPORTING

Mains fault reporting
Energy reporting
Heat mapping
Emergency Reporting
Central Battery Reporting

OTHERS

Multiple Site internet based control
Building drawing upload for graphical interface
Individual Site PC based control
Integration with Wired DALI
Interior & External

REACTA-CONTROL	REACTA-LINK	REACTA-AIR
Y	Y	Y
Y	Y	Y
Y	Y	Y
Y	Y	Y
Y	Y	N
N	Y	N
N	Y	N
Y	Y	N
N	Y (optional extra)	N
N	Y	N
N	Y	N
Y	N	N
Y	N	N
Y	Y	N



CONTROL OPTIONS

Reacta-Control incorporates a range of components which can be incorporated into your luminaire to provide the control level required.

Wireless Drivers and Nodes

Wirelessly enabled components ensure each luminaire can communicate with other devices on the network, from this basis your system can be combined with integral or external controls to bring you the system required.



Wireless Integral Sensor

Through the use of either microwave or PIR sensors virtually every luminaire in the Dextra range can incorporate Reacta-Control presence detection and daylight regulation sensors. These can then be linked through the wireless network to allow grouped operation of luminaires, ideal for scenarios such as corridors and open plan offices where multiple luminaires can be lit from a single point of motion detection. When combined with the gateway integral presence detection sensors allow reporting of occupancy so building usage can be effectively monitored.



Wireless Stand alone Sensor

When an integral sensor per luminaire is not needed stand alone sensors can be linked to wirelessly enabled luminaires allowing you to link any sensor with any luminaire giving you complete flexibility of grouping and control.



CONTROL OPTIONS

Wireless Wall Switch

Wireless wall switching allows luminaires to be overridden as required, turn on and off, dim up and down and scene select any luminaire within the broadcast range. The wireless wall switch is battery powered so can be installed by simply fixing to the wall, there is no need for any power or control cabling.



Emergency

Incorporating Reacta-Control Emergency enables automatic testing and reporting of your emergency luminaires eliminating manual testing and the associated costs, whilst allowing central reporting of failures simplifying maintenance. Wireless emergency testing offers the most substantial payback and return on investment by removing the labour costs from testing your emergency installation and also simplifying the repair of failed luminaires by centrally reporting all faults to an on site PC enabling the fault to be repaired quickly at a single visit with the correct components.



Gateway

The Reacta-Control gateway links all of your wireless devices through your ethernet network allowing the status of all luminaires to be monitored from a central PC. Each SceneCom can control 3 legs with 63 devices on each plus one wireless bridge. The SceneCom then links to a central PC where emergency tests can be viewed, emergency test times scheduled, faults of both emergency and mains luminaires can be monitored and power consumption can be tracked amongst many other features.



Commissioning App

All commissioning is undertaken via a user friendly mobile based app. Commissioning is carried out through Bluetooth, enabling identification of luminaires and controls in close proximity to you ensuring installations can be quickly and effectively commissioned regardless of size.

During commissioning luminaire locations are allocated to the drawings to enable accurate identification for energy reporting, emergency testing and failure monitoring. Groups are also established for sensor and switch operation.

Reacta-Control provides complete versatility. Groups, sensors, switch and luminaire relationships can be easily changed through the app, unlike a hard wired system there is no need to modify control wiring.

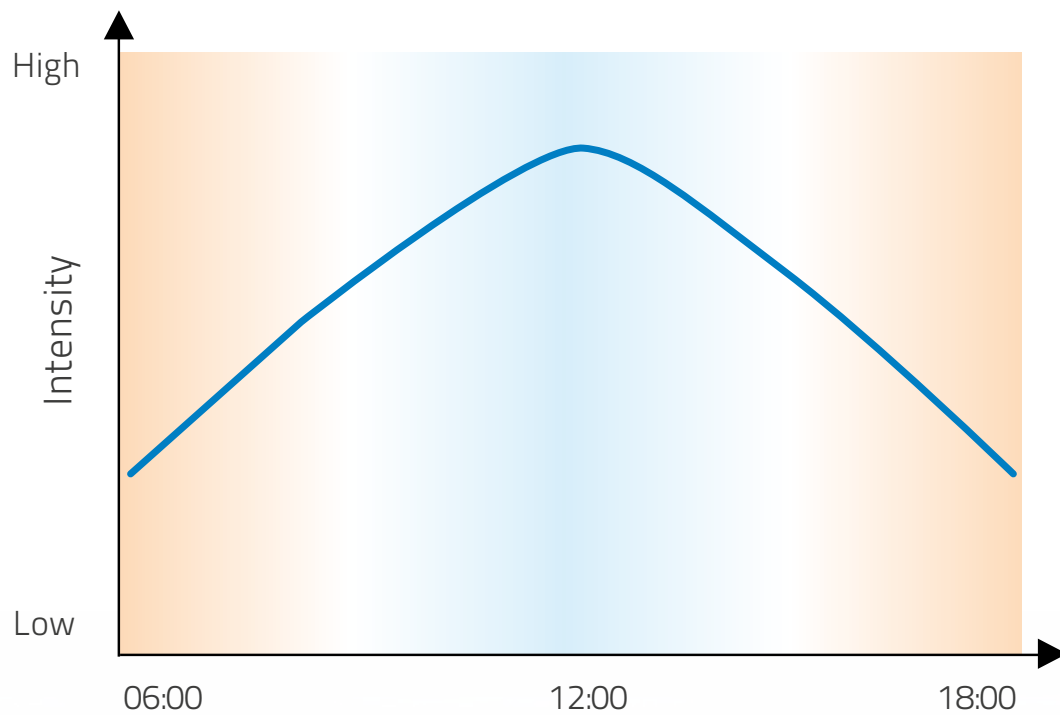
Commissioning is simple, intuitive and user friendly, once the initial set up is complete adjustments can be easily made without the need of expert commissioning.

The app is available on the Apple or Google Play store for Android and Apple devices.



White Tunable

Reacta-Control is fully compatible with White Tunable Dali Type 8 systems enabling either automated colour change through the course of the day to align with the patterns of natural daylight, or manual override of colour temperatures should users wish to through wireless wall switches.



Control Options

To assemble your Reacta-Control system simply choose the functionality required and then add the component codes required to your luminaire choice.

Function	Components						
	Luminaire		Integral Controls		Stand-alone Controls		
	RC	LA3RC	RCS	RCM	RCWS	RCSS	RC GATEWAY
	Mains	Emergency	PIR	Microwave	Wall Switch	PIR Sensor	Gateway
Local Control							
Wireless enabled luminaire							
Occupancy Detection							
Daylight Regulation							
Wireless Sensor Grouping							
Wireless Wall Switching							
PC Based Reporting							
Emergency Reporting		With Gateway					
Energy Reporting	With Gateway						
Mains Failure Reporting	With Gateway						
Occupancy Reporting			With Gateway	With Gateway		With Gateway	

At the basic level each luminaire must contain a wireless driver or wireless node to enable it to link to the wireless network, with this in place controls of your choice can be added to create the functionality required.

Integral or stand-alone presence detection and daylight regulation sensors can then be wirelessly grouped together so any one activation will light all luminaires within the group. Both passive infra red and microwave sensors are available ensuring that a wide range of luminaire types can be sensor enabled from IP20 office luminaires through to industrial IP65 ranges.

Wireless wall switches can be linked to groups to enable override of luminaires or to create absence detection systems.

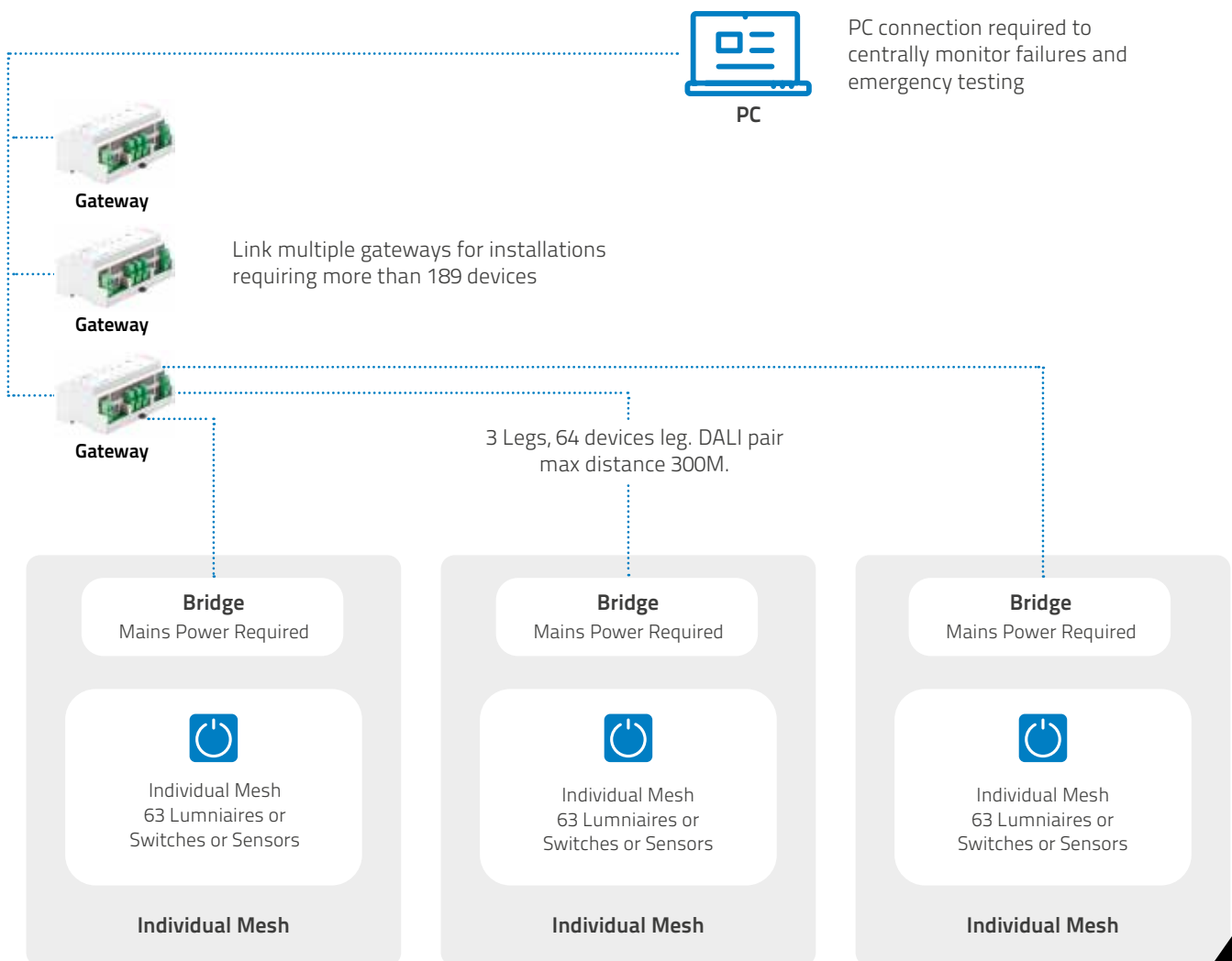
Integral wireless emergency enables automated reporting of emergency testing and failures when supplied with the gateway.

The gateway will also enable a wide range of data gathering from wirelessly enabled luminaires such as energy consumption, mains failure reporting and emergency testing and failures.

REACTA-CONTROL INFRASTRUCTURE

In order to allow your wireless devices to communicate with a central PC to bring the highest tier of control including central reporting of energy consumption, emergency test results and monitoring of mains and emergency failures, Gateways with wireless bridges are required. Each Gateway can control up to 192 wireless devices divided over three legs of 64 devices each. Each wireless device may be a luminaire, or a control device such as a switch or sensor. Each leg of the Gateway requires a wireless bridge wired to the gateway via a DALI pair, this wireless bridge consumes one address on the leg leaving 63 spare devices per leg for wireless devices such as luminaires and controls. The wireless bridge must be situated in the vicinity of the devices with which it is connected.

The Gateway should then be linked to the reporting PC via a local area network. Where more than 192 devices are installed multiple Gateways can be linked together enabling the largest of installations to be monitored through Reacta-Control.



REACTA-CONTROL LICENSES

In its most basic form of grouped luminaires, sensors and switches without the use of any Gateways for central reporting Reacta-Control is a license free system. When the enhanced features of Reacta-Control are required, for example automated emergency testing, central test reporting and failure reporting there are additional software licence requirements to unlock these features of the Gateway. These are one off licence fees at point of purchase, there are no ongoing subscription costs to use Reacta-Control.

Each license will control a specific number of devices, therefore depending on the size of the installation multiple licences may be required to accommodate your project. A comprehensive list of the full feature set and licence requirements for this system are listed below:

Licence	Description	Qty Devices
RC LIC LIGHT 250	Enables daylight regulation	250
RC LIC E3 100	Enables emergency testing large installation	100
RC LIC E3 50	Enables emergency testing medium installation	50
RC LIC E3 25	Enables emergency testing small installation	25
RC LIC SHOWS	Allows scene control for both white luminaires and tunable white / RGB installations.	Unlimited
RC LIC BACNET 1000	Enables BACnet compatibility for integration with other BACnet compatible systems extra-large installation	1000
RC LIC BACNET 500	Enables BACnet compatibility for integration with other BACnet compatible systems large installation	500
RC LIC BACNET 100	Enables BACnet compatibility for integration with other BACnet compatible systems medium installation	100
RC LIC BACNET 50	Enables BACnet compatibility for integration with other BACnet compatible systems small installation	50
RC LIC GATEWAY X5	Enables up to 5 Gateways to be linked together	5 Gateways
RC LIC EM LINK	Enables the reporting PC to generate email notifications	Unlimited

COMPONENT CODES

REACTA CONTROL ENABLED LUMINAIRE



RC

Reacta Control Driver/Node



LA3RC

Reacta Control Lithium
Emergency



RCZ

Reacta-Control Column Mount
Zhaga Book 18

REACTA CONTROL INTEGRAL SENSOR



RCS

Reacta Control PIR Presence
and Daylight Sensor



RCME

Reacta-Control Microwave
Sensor On / Off



RCMC

Reacta-Control Microwave
Sensor Corridor Function



COMPONENT CODES

REACTA CONTROL STANDALONE CONTROLS



RCWS BLACK

Reacta Control
Wall Switch



RCWS F WHITE

Reacta-Control
Wall Switch Fixed



RCSS

Reacta Control
Standalone Sensor



RCSS SURFACE CAN

Reacta-Control Surface
Standalone Sensor



RC BRIDGE

Reacta Control
Wireless Bridge



RC GATEWAY

Reacta Control
Gateway

Frequency – 2.4GHz

LICENCES:

EMERGENCY

RC LIC E3 100

Reacta-Contol Licence 100 Emergency Luminaires

RC LIC E3 50

Reacta-Contol Licence 50 Emergency Luminaires

RC LIC E3 25

Reacta-Contol Licence 25 Emergency Luminaires

DAYLIGHT LINKING

RC LIC LIGHT 250

Reacta-Control Licence 250 Daylight Linked Luminaires

GATEWAY

RC LIC GATEWAY X5

Reacta-Control Licence 5 Gateway Link