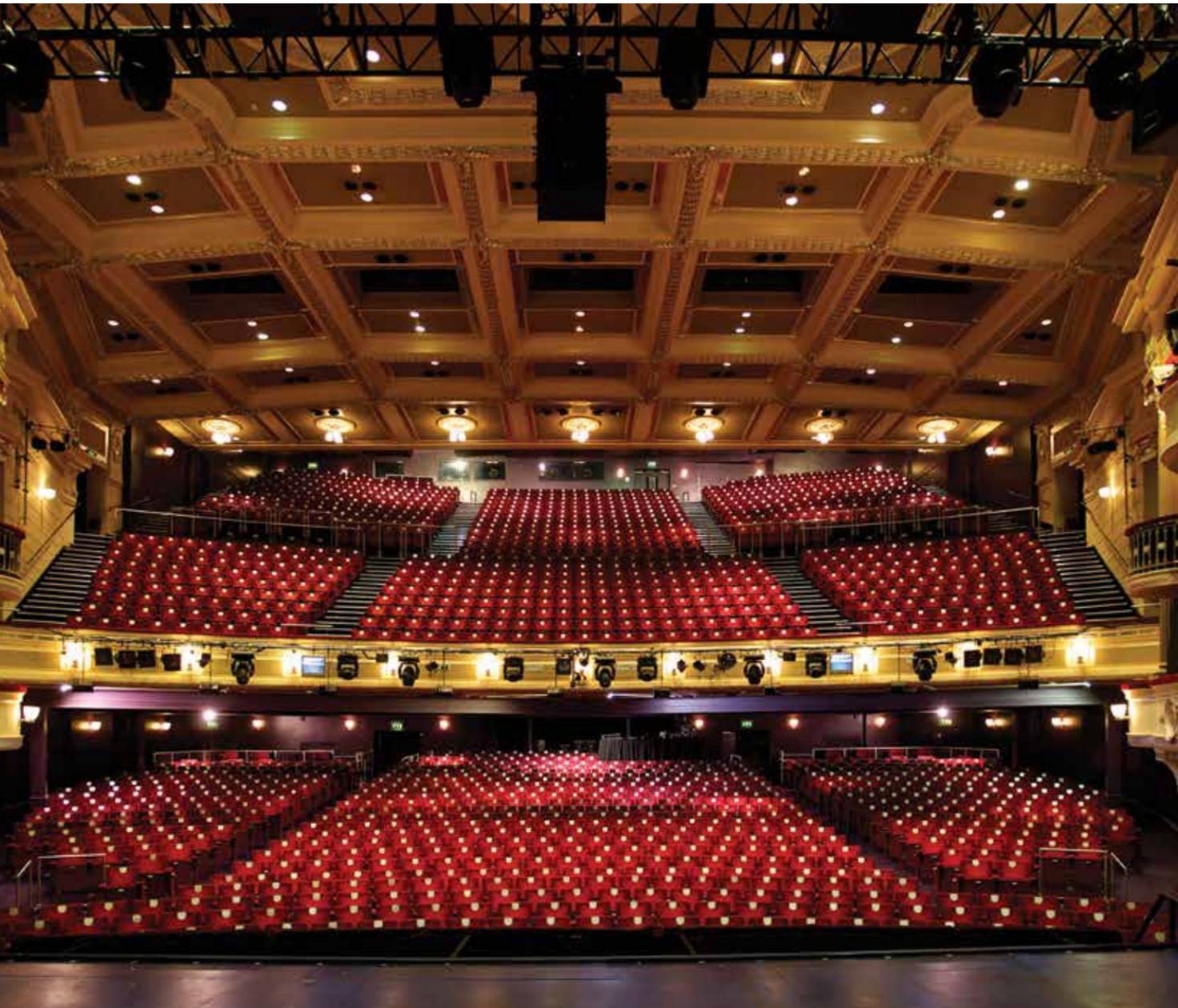


ARCSYSTEM

Fully-dimmable LED lighting for auditoriums,
retail and commercial installations



BEAUTIFUL, DYNAMIC LIGHT



Sharpening the Cutting Edge

For four years, GDS has seen its ArcSystem installed into some of the world's most significant theatres, arenas, churches, galleries and museums. In 2015 ArcSystem lit the way for approximately 55 million people worldwide, with peerless light quality in an environmentally and economically sustainable way. In the fast-paced world of technological advancement, only a tireless approach dedicated to constant innovation and development maintains a position in the front rank. For GDS, that means pushing boundaries – making the best better. ArcSystem was born from precisely this innovative approach and now with new features and numerous system enhancements has begun a new chapter on its journey toward perfection. ArcSystem V1.5 is here.



Invest in Quality, Save Energy, Save Money

Originally developed with theatres in mind, ArcSystem now provides high quality light for an ever-increasing range of applications. ArcSystem uses highly efficient Lumileds LEDs in all colour temperatures across the range. With excellent colour rendering and bright output, ArcSystem luminaires offer all the energy and cost-saving benefits of LEDs without any aesthetic compromise. By allowing for the individual control of each luminaire, ArcSystem ensures that optimum light level is achieved for every area to be covered. All ArcSystem luminaires are designed to be used with standard electrical installation hardware and are completely convection cooled for silent operation in noise-sensitive environments. Carefully designed reflectors across the entire ArcSystem range serve to minimise glare.



When the Lights go Down

Perfect dimming is part of the essence of ArcSystem. Many LEDs are designed to work with preset scenes and light switches but fall short when it comes to a smooth fade to zero. ArcSystem luminaires have been specifically engineered for smooth, uniform and silent dimming from 100% to 0%. When the curtain goes up, ArcSystem will dim perfectly, without flicker or distraction, every single time.

SIMPLE INSTALLATION



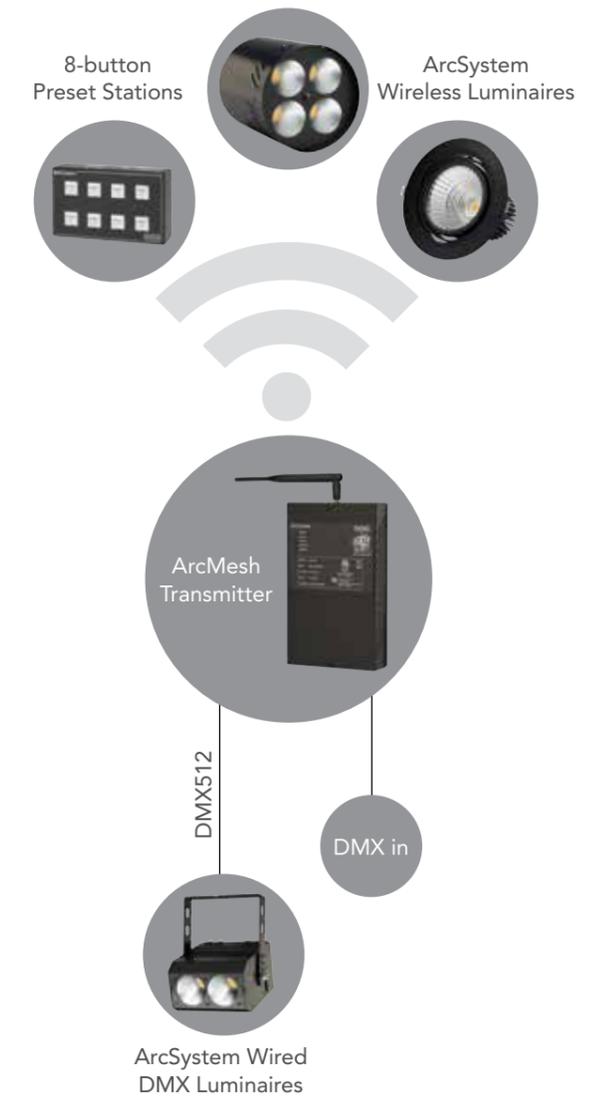
Wireless Control with ArcMesh – No Need to Rewire

The prospect of installing a new lighting system might be considered daunting but ArcSystem simplifies the process with its ArcMesh wireless control network. Each ArcSystem One-Cell or Multi-Cell luminaire acts as a configurable transceiver, able to communicate wirelessly with other units. Each unit is individually and remotely accessible, enabling a quick and trouble-free set-up.

Choose a Control Method

The ArcMesh Transmitter converts traditional DMX input to wireless ArcMesh signal, so ArcSystem can easily interface with a venue's existing control system. ArcSystem luminaires can also be controlled via wired DMX or as part of a hybrid system designed to use both DMX and wireless technology.

The transition to ArcSystem, whether retro-fitted or as part of a new installation, will be as smooth as its dimming.



RECESSED LIGHTING SOLUTIONS



Smooth Dimming, Sleek Profile

With excellent light quality (90+ CRI) and multiple beam angles to choose from, the Pro One-Cell is a perfect, energy-efficient replacement for traditional incandescent fixtures.



Pro One-Cell MR 16

A compact MR 16 LED fitting that blends effortlessly into any ceiling for short to medium throw illumination. The MR 16 is available in beam angles of 19, 24 and 60.



Pro One-Cell Small

Fixed or adjustable by means of two-axis adjustable mounting bracket to ensure even illumination and avoid unsightly scalloping on walls and architecture. One-Cell Small is available in beam angles of 19, 24, 37 and 60 degrees.



Pro One-Cell Large

Sharing the fixed or adjustable characteristic of the One-Cell Small, One-Cell Large is available in 30, 40 and 80 degree beam angles for wider coverage.



SURFACE-MOUNT SOLUTIONS



Perfect Fit and Complete Coverage For Any Space

Pro One-Cell Yoke

Sharing the same high quality optics as its recessed counterparts, this Pro One-Cell variant has a highly adjustable yoke that can be mounted or clamped in hard-to-light spaces. The Pro One-Cell Yoke is powered by the D1 Driver. One-Cell Yoke is available in beam angles of 30, 40 and 80 degrees.



Pro Two-Cell

This small, narrow luminaire is ideal for short throws and small spaces. The onboard driver acts as an ArcMesh wireless transceiver, allowing for easy system setup. The Pro Two-Cell comes in multiple beam angles (19, 24, 37 and 60 degrees) and colour temperature options.



Pro Four-Cell Square

This compact luminaire packs a punch on medium to long-throw installations where hanging space is limited. The Pro Four-Cell has an onboard driver and comes in various beam angles (19, 24, 37 and 60 degrees) and multiple colour temperature options.



Pro Four-Cell Linear

This Pro Four-Cell luminaire delivers high-quality, medium to long-throw optics in a form factor that fits easily between architectural beams and acoustic panels. It is available in beam angles of 19, 24, 37 and 60 degrees.



Pro Eight-Cell

The largest of the Pro Multi-Cell luminaires, the Pro Eight-Cell tucks into high ceiling bays for long-throw, wide-angle illumination. The Pro Eight-Cell has an onboard driver and comes in various beam angles (19, 24, 37 and 60 degrees) and multiple colour temperature options.



PENDANT SOLUTIONS



Get the Hang of Elegant Lighting

Pro Four-Cell Round

The ArcSystem Pro Four-Cell Round is a high-output, smooth dimming luminaire for medium to long-throw illumination, with the same high quality light and dimming as the other Pro Multi-Cell luminaires. Pendant luminaires are available in black, white and custom colour finishes, with a clean, round form that fits seamlessly in any venue.

Pendant luminaires are designed to be hung using standard electrical installation hardware and are completely convection cooled for silent operation in noise sensitive environments.

The high-grade recessed LEDs allow the Pro Four-Cell Round to be installed without glare. Pro Four-Cell Round is available in beam angles of 19, 24, 37 and 60 degrees.



ARCLAMP



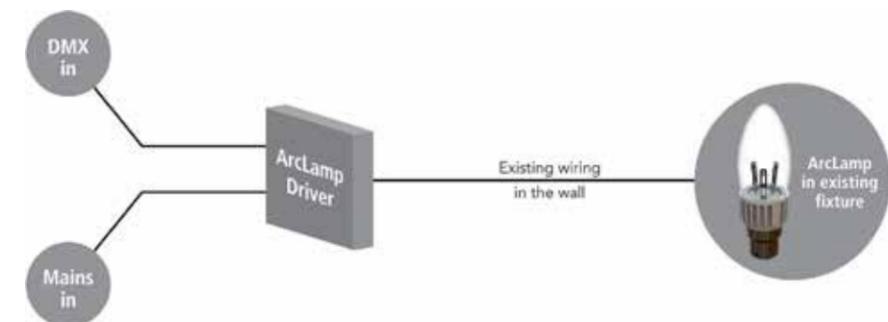
An LED Lamp with High Standards

ArcLamp

Making a historic chandelier LED-compatible is just one of the possibilities offered by ArcLamp. The process is as simple as replacing incandescent lamps and using existing wiring to connect to the ArcLamp driver, which can be located in a ceiling or dimmer room. A very bright lamp available for every fixture in the range and rated for 35,000 (preliminary) hours of continuous use, ArcLamp has the option of 'fade to warm' when dimming down and offers a CRI of 90+ giving out 600 lumens (preliminary) 60W tungsten equivalent.

With a lifespan that eliminates the need for expensive maintenance in hard to reach areas, perfect dimming and a 90% energy saving over incandescent equivalents, ArcLamp is an elegant, unrivalled solution for an ever-increasing range of applications.

ArcLamp is available in every type of lamp base with candle and globe shape options in clear and frosted finishes.



INSTALLATION AND CONTROL



ArcMesh Transmitter – Wired, Wireless or Hybrid – Retro Fit or New Build.

ArcSystem can be addressed and controlled wirelessly using the ArcMesh Network (allowing for easy setup without the hassle of control wiring or costly renovation). The ArcMesh Transmitter is the brains of the wireless system, converting DMX signals into wireless ArcMesh control signals. Each ArcSystem luminaire driver has the ability to rebroadcast these signals if selected, maintaining a network intact over long distances. Each ArcMesh Transmitter supports up to 100 ArcSystem luminaires.

It is important to note that ArcSystem can also be controlled by wired DMX, allowing for the design of systems which may be wireless, wired or a hybrid of both. This flexibility enables ArcSystem to meet the specific requirements of any situation, new-build or retro-fit.

ArcMesh Transmitter's recently developed RIG identify button allows the user to identify all attached fixtures, drivers and button panels connected to that transmitter. Each transmitter has 4 auxiliary inputs and 4 auxiliary outputs, enabling connection to a variety of facilities including alarm panels, projector control, EVAC, cleaners, fire alarm and scene recall from standard buttons.

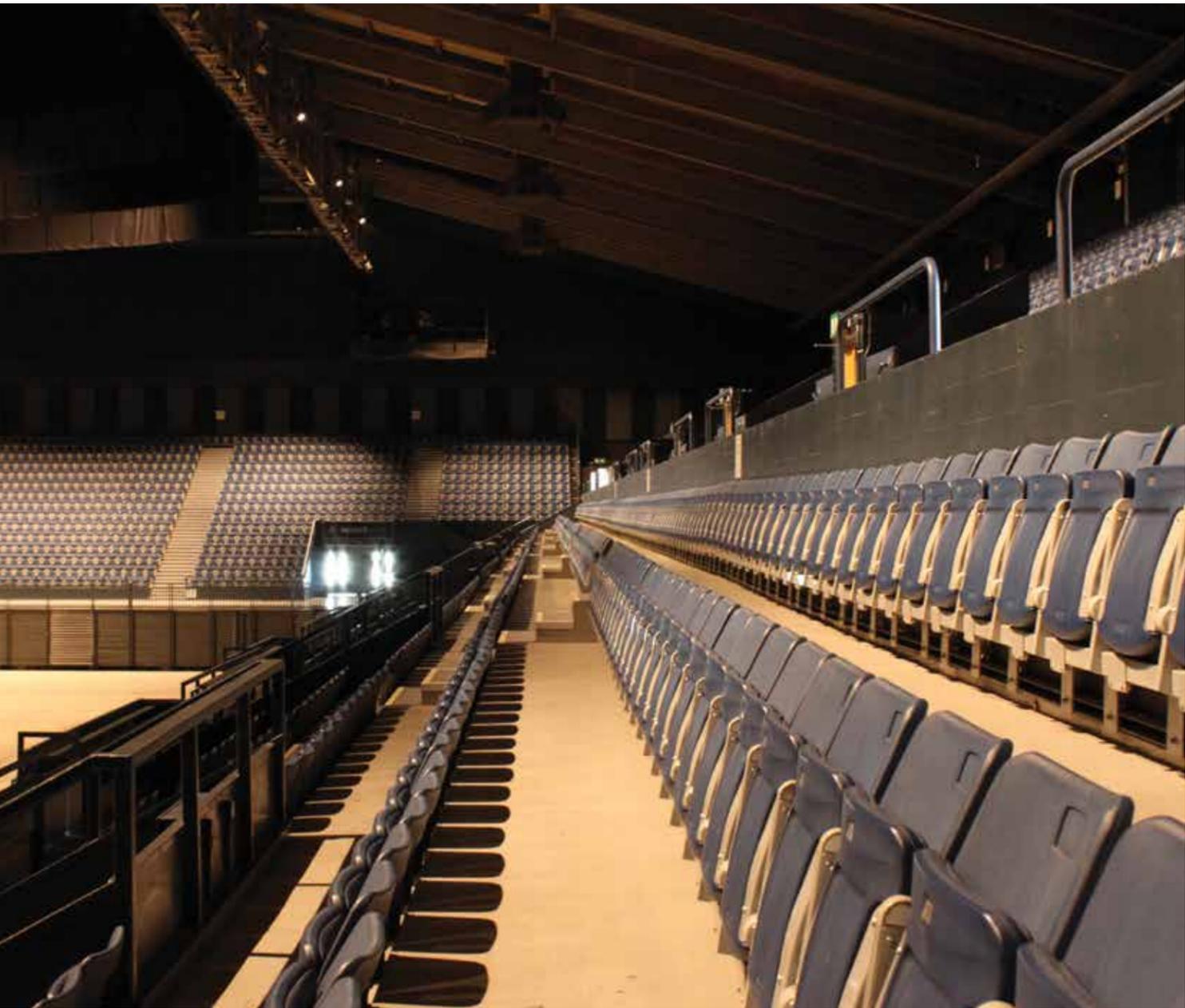
Co-ordinating your ArcSystem control with a venue's other systems couldn't be easier. Simply connect your existing control console or architectural system to the ArcMesh Transmitter's DMX input to complete a fully integrated house light system.

Eight Button Preset Panel

If a venue doesn't have a dedicated control system, the optional Eight Button Preset Panel can provide direct recall for eight preset scenes stored in the ArcMesh Transmitter, requiring only mains power to operate.



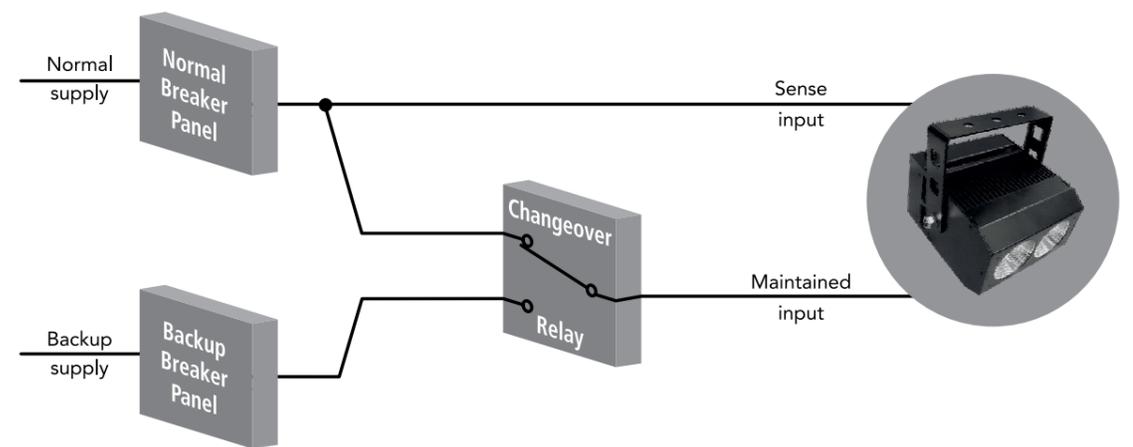
EMERGENCY LIGHTING



Easy Setup and Wireless Control

If a venue suffers a power failure, leaving the audience in the dark is not an option. Fortunately, all ArcSystem Pro luminaires are available in emergency versions.

Emergency luminaires are equipped with a secondary mains feed, used to sense the presence of normal power. If normal power fails, the ArcSystem luminaire will override its control and switch on to full.



LED DRIVERS



ArcSystem Drivers

GDS multi-cell products have built-in drivers, allowing direct connection to the mains supply, whereas single cells, LED strip and low voltage ArcLamp fixtures require separate drivers.

GDS offers a range of different LED drivers for any LED product, including 3rd party downlights and LED strip, in any configuration in any size of venue.

Constant Current (CC)

CC drivers will vary the output voltage up or down to guarantee a set power input into the LED. This is used for LEDs that do not have the ability to limit power internally, including all single cell units and multi-cell fixtures. CC drivers are useful for lighting systems that have long cable runs, or if the installation allows light fittings to be wired in series on one channel. GDS CC drivers are available in 1, 4 and up to 48 channels of control.

Constant Voltage (CV)

CV drivers provide a fixed voltage output and power up to the driver specification. They are used with LED products which limit their power internally, including LED strip and all ArcLamp products. In these applications CV drivers ensure that light output is constant across the entire length of the strip or circuit of ArcLamps. GDS CV drivers are available in 150, 350 and 700W versions with a fixed voltage output of 24 Volts DC.

All drivers have built in wireless and wired RJ45 for easy setup and configuration. Each type of driver in the range is available in an 'emergency' version, enabling the use of any LED fitting as a house or emergency light. Wall and rack mount options are available.



TECHNICAL SPECIFICATIONS



ArcSystem Luminaire	–	Product Code	Driver	Size / Beam Angles	Colour Temperature	CRI / Output
ArcLamp		ARCP15L	Constant Voltage	B22 / B15 / E14 E27 lamp base	Fade to Warm	90+CRI 6w 600lm (Preliminary)
MR16 Recessed		ARCP151M	Constant Current	19°, 24° 60°	2700K 3000K 4000K	90+CRI 7.2w 575lm
MR16 Yoke		ARCP151M	Constant Current	19°, 24° 60°	2700K 3000K 4000K	90+CRI 7.2w 575lm
1-Cell Small Recessed		ARCP151S	Constant Current	19°, 24° 37°, 60°	2700K 3000K 4000K	90+CRI 21.6w 1661lm
1-Cell Large Recessed		ARCP151L	Constant Current	30°, 40° 80°	2700K 3000K 4000K	90+CRI 21.6w 1661lm
1-Cell Large Yoke		ARCP151L	Constant Current	30°, 40° 80°	2700K 3000K 4000K	90+CRI 21.6w 1661lm
2-Cell		ARCP152	Onboard	19°, 24° 37°, 60°	2700K 3000K 4000K	90+CRI 43.2w 3520lm
4-Cell Linear		ARCP154L	Onboard	19°, 24° 37°, 60°	2700K 3000K 4000K	90+CRI 86.4w 7641lm
4-Cell Square		ARCP154S	Onboard	19°, 24° 37°, 60°	2700K 3000K 4000K	90+CRI 86.4w 7641lm
4-Cell Round		ARCP154R	Onboard	19°, 24° 37°, 60°	2700K 3000K 4000K	90+CRI 86.4w 7641lm
8-Cell		ARCP158	Onboard	19°, 24° 37°, 60°	2700K 3000K 4000K	90+CRI 172.8w 13822lm

All luminaires and drivers are available in emergency options

ArcSystem Driver	–	Product Code	Type	Application	Connectivity	Output
ArcSystem D1 20w CC		ARCP15MD1CC	Constant Current	Wall Mount	ArcMesh	20w
ArcSystem D4 150w CC		ARCP15MD4CC	Constant Current	Wall Mount	ArcMesh	150w
ArcSystem D4 150w 24v CV		ARCP15MD4CV	Constant Voltage	Wall Mount	ArcMesh	150w 24v
ArcSystem D4 350w 24v CV		ARCP15MD4CV	Constant Voltage	Rack Mount	ArcMesh	350w 24v
ArcSystem D4 700w 24v CV		ARCP15MD4CV	Constant Voltage	Rack Mount	ArcMesh	700w 24v
ArcSystem Driver	–	Product code	Type	Application	Connectivity	–
ArcSystem Transmitter TX1		ARCP15MTX1	Transmitter	Mains	ArcMesh	–
ArcSystem Transmitter USB TX1		ARC15MTX1USB	Transmitter	USB	ArcMesh	–
ArcSystem Commissioning Tool		ARCMCP8	Commissioning Tool	USB	ArcMesh	–
ArcSystem 8 Button Panel		ARCP15WC	Control Panel	RJ45 In/Out	Wired TX1	–

ARCSYSTEM

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