



FALCON™

LOW VOLTAGE POWER & LIGHTING SOLUTIONS

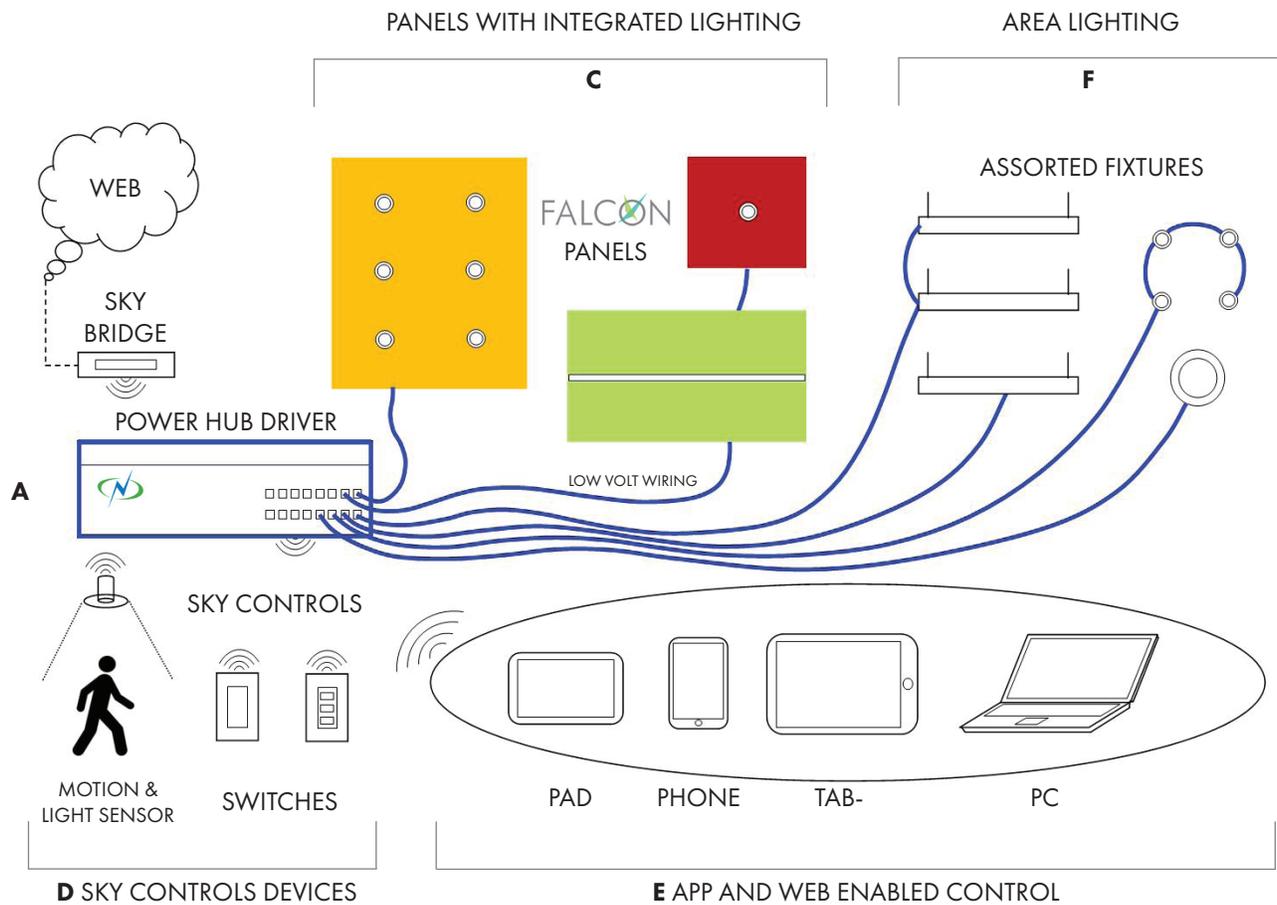
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# World class acoustical solutions with fully integrated low voltage LED lighting and controls.

-  *LABOR SAVING INSTALLATION*
-  *WIRELESS CONTROLS*
-  *EASILY RECONFIGURABLE*
-  *ENERGY SAVINGS*



# SYSTEM BASICS



## SYSTEM COMPONENTS

- A** 24v DC Power Hub Driver
- B** Class 2 Plug and Play low volt cables
- C** Falcon panels with integrated LED lighting
- D** Assorted SKY Controls lighting control devices
- E** Additional Web-Enabled lighting controllers
- F** Additional room/area light fixtures

## SYSTEM BENEFITS

- Labor and cost saving plug and play installation
- Safe-to-the-touch Class 2 wiring
- High quality LED Lighting Components
- Wireless full function lighting controls

# LOW VOLT – POWER DISTRIBUTION

## WHY NEXTEK'S POWER HUB DRIVER?

Due to more stringent building and energy codes, power and lighting systems are undergoing an industry-wide transformation. Components need to be interactive, responsive, efficient, reliable, and in one word: SMART! The Power Hub Driver provides the ideal platform to support this evolution to smart power technology. We offer fully integrated multiple communication options and a significant array of built-in safety and performance features. The PhD supports a wide assortment of highly efficient DC powered fixtures and loads for buildings of today and tomorrow. The PhD presents an unparalleled opportunity to provide your building with full integration through a variety of renewable power sources. In short, our PhD is 'Really Smart Power.'

## FEATURES & BENEFITS

- Integrates wired or wireless communication to simplify commissioning of control systems
- Fanless, passive cooling for quiet, long-lasting operation
- State-of-the-Art Class 2 connector system for robust, adjustable, cost-effective installation
- Each Class 2 output (aka Channel) has short circuit and over-power shut-down to protect low voltage installers
- PhD is easy to service and can be repaired directly at installed location
- Compatible with Nextek custom cables to have turnkey solution delivered to site
- Compatible with Emerge Alliance® LED light fixtures to ensure trouble-free installations
- Compatible with "High Resistance Mid-Point" grounding systems to achieve safest Class 1 DC systems
- Available in 16, 6, and 1 channel configurations

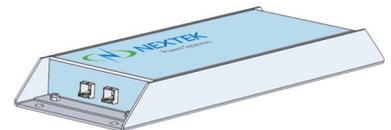
PhD 16 CHANNEL



PhD 6 CHANNEL



PhD 1 CHANNEL



## NEXTEK CABLE SETS



The robust, Low Voltage, Class 2, safe and flexible power and lighting system, provided by Nextek power servers, utilizes cable sets that are sized and matched for proper connectivity and performance. Assorted connector options, mating with the family of Nextek power servers, fixture, and control options, offer an optimized 'plug-and-play' experience for installers, delivering significant labor and time savings. Nextek provides expert support in mating the right cable sets to each custom application. As a true value add, Nextek includes cable layout plans with each Nextek designed system, offering field personnel individualized, simple, and clear directions on which cable to utilize at each location.

# FIXTURE OPTIONS

## EMBEDED LINEAR

- Fully embedded in panel
- 118° beam angle
- Milky white lens
- CCT 27K–3.0 watts (234LM)/5.0 watts (507LM) per foot
- CCT 41K–3.0 watts (255LM)/5.0 watts (507LM) per foot



## DOWNLIGHTS

- Low Voltage 6" or 4" LED Down Light
- 120° beam angle
- 3000K, 4000K, 5000K
- 800 lumen
- 12 Watt/Fixture - Variable Dimming
- Very low profile, flush mount
- LM-79 and LM-80 Tested
- Low Voltage DC Operation
- 90+ CRI as an option
- Aluminum Body offers excellent heat dissipation
- Meets (CEC) California Energy Commission / Title 24
- cULus Listed
- CCT 27K/ 40K available
- Black or white trim



## SUPPLEMENTAL ROOM LIGHTING

In addition to the integrated lighting solutions embedded within the Falcon / Nextek panel solutions, any space adjacent to the panel area can benefit from adding a wide range of additional system components to make full room or area lighting and control solutions. Nextek offers a full selection of complementary fixture and control devices in a variety of designs and functions. Fixture types include linear pendant, single pendant, downlights and troffers. Specialty performance fixtures delivering daylight emulation to address circadian rhythm support are also available. A full family of wireless control solutions that can provide manual control, automated occupancy, or vacancy sensing operation, daylight harvesting or scene level control are also available for rooms, areas, or whole buildings. The Falcon / Nextek team can provide project focused support to develop an area based supplemental lighting system scope to complement any acoustical panel solution.



# SKY CONTROLS

## A COMPLETE SYSTEM

Nextek Power Systems offer complete control of your building lighting through the SKY-Controls system of sensors, devices, and cloud-based software. The SKY system consists of a family of control devices that communicate with each other in a wireless mesh network to provide a new standard of control and energy monitoring. This translates into the most cost effective energy saving technology available. The highly programmable and interactive control architecture allows you to make the most efficient and responsive changes to your environment. The SKY-Controls system helps you realize significant savings for your facilities.

### SKY-BRIDGE



- Provides data connectivity with up to 100 internal IPv6 mesh network connected nodes and the internet through a standard wired ethernet connection.
- Provides automatically connected VPN web-based configuration and control from all web enabled devices, e.g. tablets, smart phones, laptops, etc.
- Color-coded LED lights indicate node connection, internet access, and power.

### SKY-SENSE MOTION & LIGHT



- Infrared motion sensor with 16 single focal point lenses; 5 optical axes
- Bi-colored status LED to indicate activation and PAN performance
- Function and timing fully programmable for Occupancy or Vacancy sensing
- Motion disable for conference facilities
- Daylight Harvest feature available

## BENEFITS OF USING SKY-CONTROLS

- Flexible and modular
- Touch Safe infrastructure
- Easy Installation - fewer materials
- Real time monitoring and control
- Cloud-based control
- More reliable equipment
- Completely programable
- Reduced labor installation costs



### SKY-SWITCH



- 2 button, one-touch wireless control interface, designed specifically to work with the SKY system.
- Can be programmed to control lighting zones, individual fixtures, scenes, or custom functions.
- Can easily control lights to be ON/OFF, press-and-hold for responsive dynamic dimming
- Fits standard Decora® wall plate
- Wired power or 5+ year battery power

# LAYOUT SAMPLES

23.5" x 47.25"



23.5" x 71"



23.5" x 94.5"



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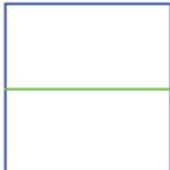
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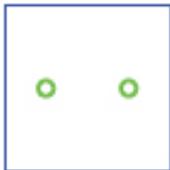
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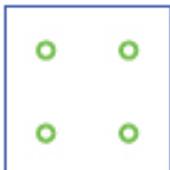
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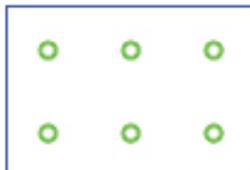
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