CRESTRON

GLPAC System



The GLPAC SpaceBuilder system is ideal for medium-sized spaces that require additional options such as expansion modules for more load types, touch screens, additional sensors, and shade and AV integration.

SpaceBuilder allows you to specify all the necessary features and operations for an autonomous lighting control system specifically designed for the needs of your space. Start by selecting the load types and accessories and finish by defining how each interface should function to control lighting levels, vacancy sensing, daylight harvesting, shades, and AV.

System Components

GLPAC

Available in 4 or 8 zone versions to control both switching and 0-10V dimming loads. Options include regular and emergency versions as well as a split 4 regular and 4 emergency zone panel. All GLPAC systems can be expanded to easily add more zones of lighting.

Keypads

Up to 4 keypads can be added to a GLPAC space. Refer to page 4 for standard sequence of operations to specify the button operations and standard engravings.

Occupancy Sensors

Up to 4 dual technology occupancy sensors can be added to each GLPAC space for either occupancy or vacancy sensing. Each sensor offers coverage for spaces up to 2,000 square feet. Sensor coverage varies based on type, see detail at end of this worksheet. Sensor defaults to vacancy operation unless noted as occupancy operation in the space part number.

Daylight Sensors

Up to 4 daylight sensors can be added to each GLPAC space for daylight harvesting control. Open-loop and closed-loop options are available.

Options

Touch Screens

An optional 7" color touch screen can be added to each to provide the user with full scene control, dynamic load control, and schedule adjustments.

Loads

Any GLPAC system can be expanded to include additional loads for 2-wire phase, DMX, or switched plug loads.

AV Integration

The GLPAC system can easily integrate with AV systems by adding a serial control module. If this option is selected, Crestron will also supply prepackaged code for the AV contractor to connect the systems.

Shade Integration

Integrate with Crestron and other shading solution systems. Control for up to 4 local shade motors can be included with each GLPAC system.

Networking

Any Crestron SpaceBuilder system can be networked to provide centralized monitoring, management, and master control. This includes direct integration with BMS and reporting, alerts, global time clock management, maintenance, and automation via Crestron Fusion®.

GLPAC	 KP	KP	KP	KP	 	 	
Date:	 Project:				 		
Quantity:	 Space Name:_				 		
Space Number(s):							

SpaceBuilder Specification Worksheet | GLPAC System

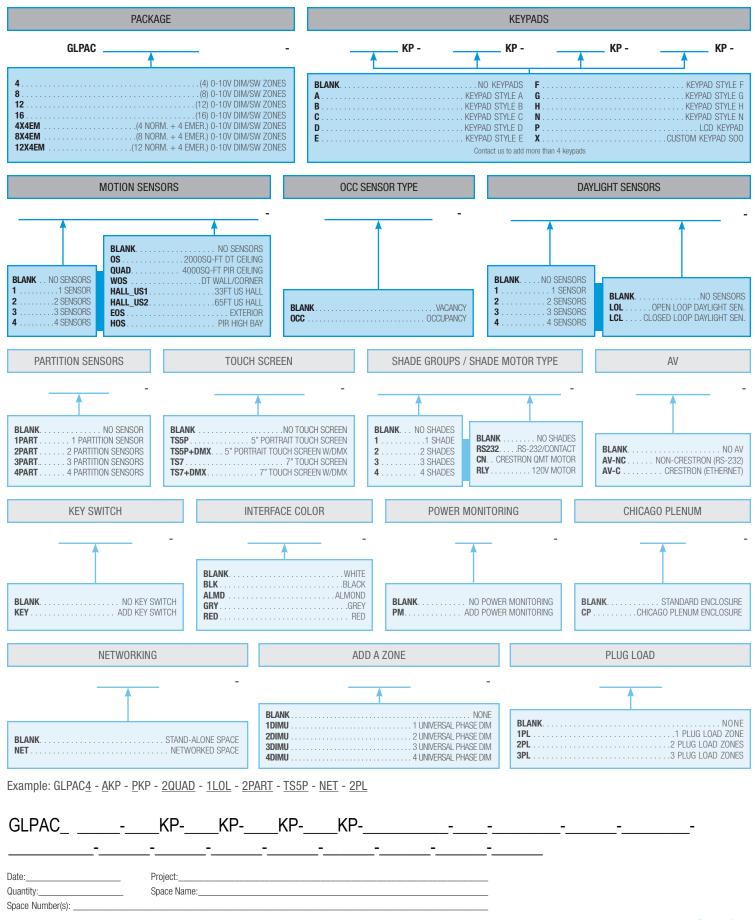


GLPAC SpaceBuilder Load Schedule

Zone #	Zone Description	Fixture Tag	Circuit #	Voltage	Load Type	Emergency / Life Safety	Dim (Y/N)	Fixture Watts	Quantity	Total Watts
Example	Pendants	a	HZ-1	277 VAC	0-10V	None	Yes	50W	4	200W
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
Add a Zone 1										
Add a Zone 2										
Add a Zone 3										
Add a Zone 4										
				277 VAC 120 VAC	Switched 0-10V 4-Wire Dimmed	None Partial Zone	Yes No			
					Universal Phase Dimmed	Complete Zone				
					DMX			-		

GLPAC	 KP	KP	KP	KP		 	
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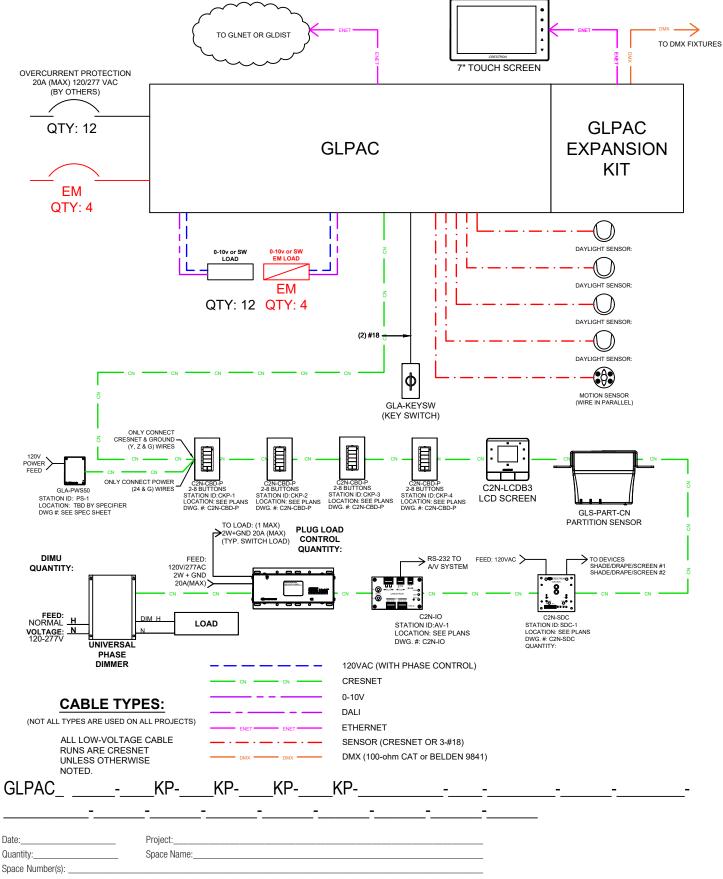




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GLPAC SpaceBuilder Schematic Riser

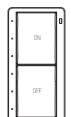


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GLPAC SpaceBuilder Sequence of Operations

KEYPAD TYPE A Office, Restroom, Storage/Utility Room, Corridor, Basic Classroom



Button 1 Functionality: ON

- > Turn all lights on and enable daylight harvesting
- > If daylight sensor is not present, lights will turn on to 100%

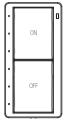
Button 2 Functionality: OFF

> Turn all lights off to 0% and disable daylight harvesting

KEYPAD TYPE B

Typical Applications

Office, Conference Room, Classroom, Library



Button 1 Functionality: ON

- > Turn all lights on and enable daylight harvesting
- > If daylight sensor is not present, lights will turn on to 100%
- > Press and hold will raise all dimmable lighting

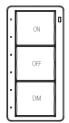
Button 2 Functionality: OFF

- > Turn all lights off to 0% and disable daylight harvesting
- > Press and hold will lower all dimmable lighting

KEYPAD TYPE C

Typical Applications

Office, Conference Room, Classroom, Library



Button 1 Functionality: ON

- > Turn all lights on and enable daylight harvesting
- > If daylight sensor is not present, lights will turn on to 100%

Button 2 Functionality: OFF

> Turn all lights off to 0% and disable daylight harvesting

Button 3 Functionality: DIM

> Toggle to dim load up and down

KEYPAD TYPE D

Typical Applications

Office, Conference Room, Classroom, Library



Button 1 Functionality: ON

- > Turn all lights on and enable daylight harvesting
- > If daylight sensor is not present, lights will turn on to 100%

Button 2 Functionality: A

> Dim lights up

Button 3 Functionality: ▼

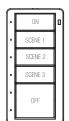
> Dim lights down

Button 4 Functionality: OFF

> Turn all lights off to 0% and disable daylight harvesting

KEYPAD TYPE E

Typical Applications
Office, Conference Room, Cafeteria, Library, Multipurpose Room, Lobby, Ballroom



Button 1 Functionality: ON

- > Turn all lights on and enable daylight harvesting
- > If daylight sensor is not present, lights will turn on to 100%

Button 2 Functionality: SCENE 1

> Recalls scene 1 settings with feedback

Button 3 Functionality: SCENE 2

> Recalls scene 2 settings with feedback

Button 4 Functionality: SCENE 3

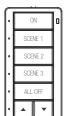
> Recalls scene 3 settings with feedback

Button 5 Functionality: OFF

> Turn all lights off to 0% and disable daylight harvesting

KEYPAD TYPE F

Typical ApplicationsOffice, Conference Room, Classroom, Library



Button 1 Functionality: ALL ON

- > Turn all lights on and enable daylight harvesting
- > If daylight sensor is not present, lights will turn on to 100%

Button 2 Functionality: SCENE 1

Recalls scene 1 settings with feedback

Button 3 Functionality: SCENE 2

> Recalls scene 2 settings with feedback

Button 4 Functionality: SCENE 3

> Recalls scene 3 settings with feedback

Button 5 Functionality: ALL OFF

> Turn all lights off to 0% and disable daylight harvesting

Button 6 Functionality: A

> Dim lights up

Button 7 Functionality: ▼

> Dim lights down

Continued on page 6

SLPAC		 				
te:	Project:	 <u> </u>	_	 	 -	

Space Number(s):



GLPAC SpaceBuilder Sequence of Operations, Continued

KEYPAD TYPE G

Typical Applications: Office, Conference Room, Classroom, Library, Applications where dimming and switching both exist and need separate control



Button 1 Functionality: DIMMING ON/OFF

- > Toggle dimmable zones on or off with feedback if any lights are on
- > Toggle to turn daylight harvesting on or off
- > If daylight sensor is not present, lights will turn on to 100%

Button 2 Functionality:

> Dim lights up

Button 3 Functionality: ▼

> Dim lights down

Button 4 Functionality: SWITCHING ON/OFF

> Toggle dimmable zones on or off with feedback if any lights are on

KEYPAD TYPE H

Typical Applications: Office, Conference Room, Classroom, Library, ations where shades control is needed



Button 1 Functionality: ALL ON

- > Turn all lights on and enable daylight harvesting
- > If daylight sensor is not present, lights will turn on to 100%

Button 2 Functionality: SCENE 1

> Recalls scene 1 settings with feedback

Button 3 Functionality: SCENE 2

> Recalls scene 2 settings with feedback

Button 4 Functionality: ALL OFF

> Turn all lights off to 0% and disable daylight harvesting

Button 5 Functionality: SHADES

> Activates up and down arrows to control shades. After 5 seconds of inactivity, up and down arrows revert back to dimming lights up and down.

Button 6 Functionality: A

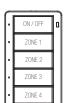
> Dim lights up (shades up when SHADES button is active)

Button 7 Functionality: ▼

> Dim lights down (shades down when SHADES button is active)

KEYPAD TYPE N

Typical Applications: Office, Conference Room, Classroom, Library Applications where shades control is needed



Button 1 Functionality: ALL ON / OFF

> Toggle all lights on and off

Button 2 Functionality: ZONE 1

> Zone 1 on, press and hold for off

Button 3 Functionality: ZONE 2

> Zone 2 on, press and hold for off

Button 4 Functionality: ZONE 3

> Zone 3 on, press and hold for off

Button 5 Functionality: ZONE 4

> Zone 4 on, press and hold for off

Button 6 Functionality: A

> Dim last touched zone up

Button 7 Functionality: ▼

> Dim last touched zone down

LCD KEYPAD TYPE P

Typical Applications: Conference Room, Cafeteria, Library,

Itipurpose Room, Lobby, Ballroom



Color LCD keypad gives control of lighting scenes 1, 2 and OFF.

KEYPAD TYPE X

Typical Applications

cations needing a custom keypad button configuration and functionality

Custom Keypad S00

Note

By selecting keypad types, the SpaceBuilder system will be programmed, packaged, and shipped from the factory as an operable turnkey lighting control solution. Additional on-site support may be required for scene or sensor calibration.

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GLPAC Specifications

LOAD RATINGS

Dimmer Channels

GLPAC-DIMFLV4(-PM): 4 GLPAC-DIMFLV8(-PM): 8

16 Amps @ 100 to 277 Volts AC, 50/60 Hz

Dim Load Types

0-10 Volt fluorescent ballast (4-wire); 0-10V LED drivers; 60 mA max current sink

Switch Load Types

Fluorescent Ballast, Incandescent, Magnetic Low-Voltage, Electronic Low-Voltage, Neon/Cold Cathode, High-Intensity Discharge, LED, Motor

Relay Lifetime

Resistive rating: 100,000 on/off operations, 50A @ 277 VAC General rating: 50,000 on/off operations, 16A @ 120/277 VAC

ENCLOSURE

Surface mount metal box enclosure, suitable for mounting in plenum airspace

ENVIRONMENTAL

Temperature

32° to 104°F (0° to 40°C)

Humidity

10% to 90% RH (non-condensing)

DIMENSIONS

Height

12.13 in (308 mm)

Width

14.13 in (359 mm)

Depth

4.06 in (103 mm)

ELECTRICAL REGULATORY CERTIFICATIONS

Relays tested and certified for Electronic Ballasts according to UL508, Section 41 (Endurance Test) and Section 61C (Electronic Ballasts)

IEC60669-2-1, Section 19.102 (Contact mechanisms incorporated in electronic switches, intended for fluorescent lamp circuits or other capacitive loads)

CEC Title 24 2013 Compliant







- > Up to 8 channels of 0-10 Volt fluorescent and LED dimming or switching
- > Works in 100 to 277 VAC systems
- > 16-Amp load rating per channel
- > Built-in Control System with Cresnet® and Ethernet port
- > Programmable astronomical time clock for scheduled events
- > Preloaded program for guick setup
- > Optional real-time power monitoring per channel
- > Supports keypad control, occupancy sensing, and daylight harvesting
- > Positive air gap at each output
- > Phase-independent channels
- Local controls for setup, testing and verification
- > Local and remote override capability
- Non-volatile power failure memory
- > High-speed Ethernet LAN port

Notes:

Products in this system can include:

GLS-ODT-C-NS: 2000 Square Foot Dual Technology Ceiling Mount Occupancy Sensor GLA-IR-QUATTRO-HD-COM1-24: 4000 sq-ft interior ceiling motion sensor GLA-DT-CM-COM1-24: Dual technology corner mount motion sensor GLA-US-ONEWAY-COM1-24: Ultrasonic 35ft corridor motion sensor GLA-US-HALLWAY-COM1-24: Ultrasonic 65ft corridor motion sensor GLA-IS-360: High bay motion sensor GLA-HBS-300: Exterior motion sensor GLS-LCL: Closed loop daylight sensor

GLS-LOL: Open Loop Daylight Sensor C2N-IO: Serial RS-232 interface TSW-760: 7" Touch Screen

C2N-CBD-P: Kevpad C2N-LCDB3: LCD Keypad

TSW-560P: 5" Portrait Touch Screen GLA-KEYSW-MAINTAIN: Keyed switch

For technical specifications on all other products in this system, please visit www.crestronlighting.com

For more information or to access digital specification forms for all Crestron SpaceBuilder systems, visit www.crestronspacebuilder.com or call 855-644-7643

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