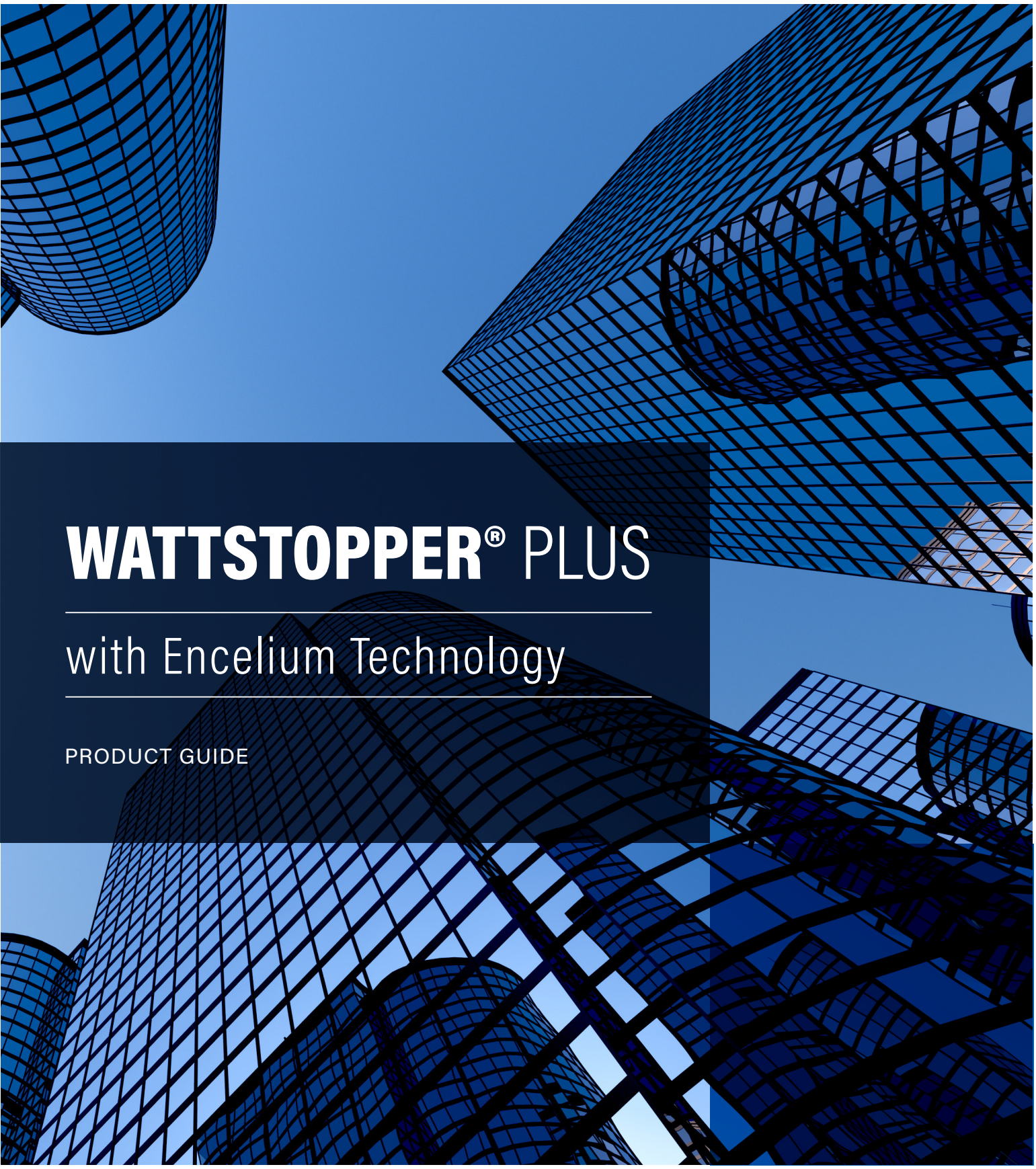

WATTSTOPPER® PLUS

with Encelium Technology

PRODUCT GUIDE

#LegrandImprovingLives

legrand®

Easy to Get **More Done**

Wattstopper PLUS combines the latest in hardware design, including a new switch aesthetic with powerful software. Our advanced Polaris Monitor software is intuitive for use with phones and tablets. Wattstopper PLUS features a new Liteserver option, wireless/wired/hybrid indoor and exterior solutions updated networking and configuration capabilities and added LMDS support.

Polaris provides insights into system usage and data, enabling quick response to occupant needs while maximizing energy savings. Backed by top-tier support, Wattstopper PLUS ensures fast, efficient configuration in your next project.

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Distributed Load Controls

	PART NUMBER	DESCRIPTION	FUNCTION	AMPERAGE	DIMMING COMPATIBILITY	INPUT VOLTAGE	COMMUNICATION TYPE
ROOM CONTROLLERS							
	EN-ALC-1R10V-GB2-BK * Damp Rated Model Available	The Area Lighting Controller (ALC) provides a high-power switching and dimming interface between a group of luminaires and the GreenBus™ communication network	Control for 0-10V dimmable and fixed output ballasts/ LED drivers	20 A	0-10 V	24 V	Wired-GreenBus
	EN-ALC-ZB-BK * Damp Rated Model Available	The Wireless Area Lighting Controller (WALC) is a wireless control device that operates a switched line AC and 0-10V control to luminaires	Control for 0-10V dimmable and fixed output ballasts/ LED drivers	20 A	0-10 V	120 to 347 VAC	Wireless with GreenBus Tether
	EN-ILCM-1R10V-GB2-BK * Damp Rated Model Available	The Wired Luminaire Control Module (LCM) enables each ballast or LED driver to be independently controlled and configured to meet the facility's needs	Control for 0-10V dimmable and fixed output ballasts/ LED drivers	4.5 A	0-10 V	24 V	GreenBus
	EN-PCDM-GB2	The Phase-Cut Dimming Module (PCDM) provides an interface between the phase-cut dimmable (forward- and reverse-phase) luminaires and the Wattstopper PLUS Lighting Control System	Control for phase dimmable ballasts/LED drivers	3.8 A	Forward Phase; Reverse Phase	120 to 277 VAC	GreenBus
	EN-WCM2-ZB * Damp Rated Model Available	The Wireless Control Module (WCM) enables each ballast or LED driver to be independently controlled and configured to meet the facility's needs	Wireless capable devices significantly reduces installer labor hours	4.5 A	0-10 V	120 to 347 VAC	Wireless with GreenBus Tether

Network Components

	PART NUMBER	DESCRIPTION	KEY FEATURES
COMPONENTS			
	EN-M-GB2-X	The Wired GreenBus Manager is a rack or wall mounted control device that collects, processes, and distributes lighting control information to Encelium X control modules, wall controllers, and other devices over the GreenBus network	Incredible flexibility of design – provides scaling system for applications of any size
	EN-WM-ZB-X	The Wattstopper PLUS Wireless Manager is the central intelligence point in the system for wireless devices	It collects information from photo sensors, occupancy sensors and wallstations to enable multiple lighting control strategies
	EN-SSU-X	The System Support Unit (SSU) is a key component in the Wattstopper PLUS Lighting Control System	For projects greater than 2000 Nodes. Provides seamless access for facility managers to monitor, analyze, and maintain the system
	EN-SSU-LITE	The System Support Unit (SSU) is a key component in the Wattstopper PLUS Lighting Control System	For projects up to 2000 Nodes. Hosts the Polaris software giving Facility Managers and Building Operators the ability to monitor and maintain their Wattstopper PLUS system
	TEG-S16G	TEG-S16G provides high bandwidth performance with 16 ports available	Sturdy rackmount metal switch with built-in power supply
	TPE-TG160G	TRENDnet's 16-Port Gigabit PoE+ Switch	Supplies up to 30 Watts of power per port with a 246 Watt PoE budget
	TPE-113GI	The Gigabit Power over Ethernet Injector	Supplies PoE (15.4W)

Integrated Fixture Controls

	PART NUMBER	DESCRIPTION	FUNCTION	OPERATING POWER	DIMMING COMPATIBILITY	INPUT VOLTAGE	WIRE CONNECTION TYPE
ROOM CONTROLLERS							
	ZBHA-CLM-DIM	The Connected Lighting Module (CLM) is a wireless device designed to easily add individual luminaire control to spaces, delivering the ultimate flexibility to building managers	Provides fixture-level control of 0-10V or DALI loads	0.3W	0-10 V, DALI	12 to 24 V	Cage Clamp
	EN-CLM-PIR-DD-ZB	The SensiLUM wireless integrated sensor family enables real-time occupancy detection, daylighting harvesting, and individual or group control of luminaires	Provides fixture-level occupancy sensing, daylight harvesting, and control of 0-10V or DALI loads	0.3W	0-10 V, DALI	12 to 24 V	Plug Terminal
	FSP-611-x*	The FSP-6x1 “Fixture Sensor Photocell” devices provide a wirelessly networked fixture-level sensing and control solution for a range of indoor and outdoor applications	Provides fixture-level occupancy sensing, daylight harvesting, and control of 0-10V or switched loads	1.5W	0-10V, Switched	120-277	FSP-611 (internal): Plug Terminal FSP-611-x (external): Flying Leads
	FSP-621-x*	The FSP-6x1 “Fixture Sensor Photocell” devices provide a wirelessly networked fixture-level sensing and control solution for a range of indoor and outdoor applications	Provides fixture-level occupancy sensing, daylight harvesting, and control of 0-10V or switched loads	1.5W	0-10V, Switched	100-347VAC (single phase), 208/230/480VAC (phase-to-phase)	Flying leads

Centralized Load Controls

	PART NUMBER	DESCRIPTION	RELAY	OPERATING VOLTAGE
PANEL SOLUTIONS				
	EN-RPAxR120-347V x is number of relays, available options are 8, 12, 18, 24, none	Relay Panels Assembled with Control Relays	Up to 24	120-347V
	EN-RPM-24C-GB2	Relay Panel Module	Up to 24	24V
	EN-CP24-10V	0-10V Dimming Panels assembled with Area Lighting Controllers (ALC)	Up to 24	120-347V
	EN-CP-CKIT	Conversion Kit, 0-10V Class 1 to Class 2, Converts up to 12 Circuits	N/A	N/A
	EN-CP-HBAR	High Voltage Barrier, splits into even numbered groups	N/A	N/A

Sensors

	PART NUMBER	DESCRIPTION	KEY FEATURES	COLOR	RANGE	COVERAGE	MOTION	MOUNTING HEIGHT	WIRE CONNECTION TYPE
SENSORS									
	EN-SCPPH-0450-GB2	Wattstopper PLUS Ceiling Mount GreenBus Sensor/ Photocell (PIR) - Passive Infrared	Occupancy Sensor & Photocell built into one device	White	24 ft	450 sq ft 360°	Minor (ex: hand)	8-10 ft	Flying Leads
	EN-SCPPH-1500-GB2	Wattstopper PLUS Ceiling Mount GreenBus Sensor/ Photocell (PIR) - Passive Infrared	Occupancy Sensor & Photocell built into one device	White	40 ft	1500 sq ft 360°	Major (ex: walking)	8-10 ft	Flying Leads
	EN-SCPPH-HB-GB2	Wattstopper PLUS Ceiling Mount GreenBus Sensor/ Photocell (PIR) - Passive Infrared	Occupancy Sensor & Photocell built into one device	White	60 ft	2800 sq ft 360°	Major (ex: walking)	20-40 ft	Flying Leads
	EN-SCPPH-0450-ZB*	Wattstopper PLUS Ceiling Mount Wireless Sensor/ Photocell (PIR) - Passive Infrared	Occupancy Sensor & Photocell built into one device	White	24 ft	450 sq ft 360°	Minor (ex: hand)	8-10 ft	
	EN-SCPPH-1500-ZB*	Wattstopper PLUS Ceiling Mount Wireless Sensor/ Photocell (PIR) - Passive Infrared	Occupancy Sensor & Photocell built into one device	White	40 ft	1500 sq ft 360°	Major (ex: walking)	8-10 ft	
	EN-SCPPH-HB-ZB*	Wattstopper PLUS Ceiling Mount Wireless Sensor/ Photocell (PIR) - Passive Infrared	Occupancy Sensor & Photocell built into one device	White	60 ft	2800 sq ft 360°	Major (ex: walking)	20-40 ft	
	EN-SIM-AI/SPS-GB2-BK	The SIM (Sensor Interface Module) provides an interface between sensors such as occupancy and photosensors to the GreenBus communication network	Suitable for luminaire or junction box mounting in standard Pg-7 (0.5 inch) trade-size knockout	Black					GreenBus; Flying Leads
	PHS-700	Indoor Photosensor	Measuring range 0-7500fc	White		180°			Flying Leads
	PHS-800	Outdoor Photosensor	Measuring range 0-7500fc	White		180°			Flying Leads
	PHS-900	Skylight Photosensor	Measuring range 0-7500fc	White		180°			Flying Leads

**Wireless Range: Zigbee, up to 100 ft*

Accessories & Cables

	PART NUMBER	DESCRIPTION	FUNCTION
ACCESSORIES			
	EN-DCII-GB2	A dry contact interface	Receive single event signals to turn on, turn off, recall scene, change color temperature and change shade positions
CABLES			
	EN-CON-50-GB2	A bag of Greenbus connectors	Allows for easy wire terminations to connect with compatible PLUS Greenbus control devices
	EN-BC-1000FT-GB2	A 1000 ft roll of Greenbus cable	Factory verified GreenBus cable expedites project completions by minimizing field troublehsooting
	EN-PTC-20FT-GB2	A 20 ft roll of Greenbus cable	Factory verified GreenBus cable expedites project completions by minimizing field troublehsooting
	C2G56041	A 100 ft roll of Ethernet Network Cable	TAA-Compliant Cat6 Bulk Cable is an excellent choice for custom length horizontal network cable runs
NETWORK COMPONENTS			
	EN-WTT-ZB	The wiring test tool is a key-fob-sized device designed for installers and contractors to test the wiring of Wattstopper PLUS wireless devices	The wiring test tool allows an installer to test the installation of their wireless devices by sending a command to toggle and dim the lighting nearby
	PS-30	The PS 30 power supply has an output voltage of 24 VDC and output current of 1.3 A	Power Supply for: — Wired Manager — DALI — DALI Switch SO
ROOM CONTROLLERS			
	ESRN	The Wattstopper PLUS ESRN Emergency Lighting Load Control Relay is designed for applications that require an emergency load to be switched on during a loss of normal power.	0-10 Vdc dimmer override

DALI Controls

(Digital Addressable Lighting Interface)

	PART NUMBER	DESCRIPTION	FUNCTION	COMPATIBILITY	LOAD CONTROL	INPUT VOLTAGE	WIRE CONNECTION TYPE
POWER PACKS & LOAD CONTROLLERS							
	ZIGBEE-DALI-CON-LI	The WLC is able to individually address and control up to 2 DALI drivers and can provide group control for up to 8 DALI drivers	Bi-directional Wireless to DALI communication	Wattstopper PLUS Wireless;DALI	DALI	220 to 240 VAC	Terminal Block
ROOM CONTROLLERS							
	DALI-SWITCH-SO	The DALI Switch SO provides the capability to switch non-dimming loads within a DALI based Wattstopper PLUS Lighting Control System	DALI-controlled switch output for incandescent lamps, QT, OT, PT, HT control gear	Wattstopper PLUS Wired;DALI	ON/OFF	24 VDC	Terminal Block

	PART NUMBER	DESCRIPTION	FUNCTION
NETWORK COMPONENTS			
	EN-M-DALI2-X	The Wattstopper PLUS Wired Manager - DALI provides individual control of lighting, allowing you to schedule, allocate, and manage light in a resource-efficient and practical way	Enables the scaling of system implementations of any size
	EN-DB-1L-GB2	The DALI Bridge is a key device in enabling the Wattstopper PLUS Lighting Control System	Enables DALI (Digital Addressable Lighting Interface) network-based lighting products in the Wattstopper PLUS Lighting Control System

	PART NUMBER	DESCRIPTION	FUNCTION	OPERATING POWER	DIMMING	INPUT VOLTAGE	WIRE CONNECTION TYPE
FIXTURE INTEGRATED CONTROLS							
	ZBHA-CLM-DIM*	The Connected Lighting Module (CLM) is a wireless device designed to easily add individual luminaire control to spaces, delivering the ultimate flexibility to building managers	Seamlessly enable tunable white applications with luminaire integrated control using DALI Type 8 LED driver	Max 0.3W	0-10 V, DALI	12 to 24 V	Cage Clamp
	EN-CLM-PIR-DD-ZB*	The SensiLUM wireless integrated sensor family enables real-time occupancy detection, daylighting harvesting, and individual or group control of luminaires	Unique form factor enables easy integration in any architectural luminaire	Max 0.3W	0-10 V, DALI	12 to 24 V	Plug Terminal

**Wattstopper PLUS Wireless*

	PART NUMBER	DESCRIPTION	RELAY	OUTPUT VOLTAGE
PANEL SOLUTIONS				
	ECU-DALI-ENC	The DALI Panel simplifies deploying DALI-based lighting controls using Wattstopper PLUS system.		24 VDC

DALI Controls *cont.*

	PART NUMBER	DESCRIPTION	FUNCTION	COLOR	SENSING RANGE	MOUNTING HEIGHT	WIRE CONNECTION TYPE
SENSORS							
	DALI-2SEN-LSPD-C-CI	The DALI-2 LS PD C CI Sensor utilizes Passive Infrared (PIR) and Photo Sensors to provide occupancy and light information	Optimized for corridor applications with a wide detection range of up to 40 m (131.2 ft)	White	40 m	4 m	Plug Terminal
	DALI-2SEN-LSPD-HB-CM	The DALI-2 LS PD HB CM Sensor provides occupancy information using passive infrared (PIR)	Designed for surface mounting	White	21 m	14 m	Plug Terminal
	DALI-2SEN-LSPD-HB-LI	The DALI-2 LS PD HB LI Sensor utilizes Passive Infrared (PIR) and Photo sensors to provide occupancy and light information	Designed for luminaire integration	White	18 m	17 m	Plug Terminal
	DALI-2SEN-LSPD-O-CI	The DALI-2 LS PD O CI Sensor utilizes Passive Infrared (PIR) and Photo Sensors to provide occupancy and light information	Designed for easy ceiling integration with the attached mounting clip	Black	12 m	4 m	Plug Terminal
	DALI-2SEN-LSPD-W-CM	The DALI-2 LS PD W CM Sensor utilizes Passive Infrared (PIR) and Photo sensors to provide occupancy and light information	Designed for surface mounting	Black	24 m	4 m	Plug Terminal
	DALI COUPLER E G2	The DALI Sensor Coupler E allows integration of external light and presence sensors into the Wattstopper PLUS System	Integrates with third-party daylight and occupancy sensors	White			Plug Terminal
	DALICPL-MULTI3G2	The DALI LS PD MULTI3 CI is a compact ceiling mounted sensor	Designed for ceiling mounted applications	White			Plug Terminal
	DALI COUPLER HF G2	The DALI HF LS LI is a High-Frequency Light Sensing Luminaire Integrated Sensor and Coupler	Designed for luminaire integration	White			Plug Terminal
	DALISENS-LSPD-CIG2	The DALI LS PD is a compact light and presence sensor that is ceiling mounted or attached to a luminaire	Ceiling mounting height between 2 to 5 m (6.6 to 16.4 ft)	White	6 m	5 m	Flying Leads
	DALISENS-LSPD-LIG2	The DALI LS PD is a compact light and presence sensor that is ceiling mounted or attached to a luminaire	Small housing design	White	6 m	5 m	Flying Leads
	DALISN-LSPD-LIUFG2	The LS PD LI UF is an extremely low profile sensor suitable for indoor applications	Extremely low profile	White	36 m	4 m	Flying Leads
	DP-EBDMR-DALI2	The DP-EBDMR-DALI2 is a mid-range, flush mounted, ceiling sensor	Fully compliant to IEC 62386-303 (Occupancy detector) and IEC62386-304 (Light Level detection)	White	15 m	2.8 m	Plug-In
	DP-EBDSPIR-DALI2	The DP-EBDSPIR-DALI2 is a flush mounted, ceiling sensor	Fully compliant to IEC 62386-303 (Occupancy detector) and IEC62386-304 (Light Level detection)	White	7 m	2.8 m	Plug-In

Personal Controls

PRODUCT COLOR KEY: W - White, I - Ivory, A - Almond, G - Gray, BK - Black, B - Brown, R - Red

	PART NUMBER	DESCRIPTION	APPLICATION	WALLPLATE	LOAD SWITCHING	LOAD DIMMING	SCENE CONTROL	FINISHES
PERSONAL CONTROLS								
	EN-SW-11*	PLUS Switch, 1 Button 1 Rocker	Single-Zone Dimming	Legrand Radiant or any standard decorator size	N	Y	N	W, I, A, G, BK, B, R
	EN-SW-20*	PLUS Switch, 2 Button	Single or Dual-Zone On/Off	Legrand Radiant or any standard decorator size	Y	N	N	W, I, A, G, BK, B, R
	EN-SW-22*	PLUS Switch, 2 Button 2 Rocker	Dual-Zone Dimming	Legrand Radiant or any standard decorator size	N	Y	N	W, I, A, G, BK, B, R
	EN-SW-41*	PLUS Switch, 2 Button	Multi-zone Scene Control	Legrand Radiant or any standard decorator size	N	Y	Y	W, I, A, G, BK, B, R
	EN-SW-50*	PLUS Switch, 5 Button	Multi-zone Load Control	Legrand Radiant or any standard decorator size	Y	N	Y	W, I, A, G, BK, B, R
	EN-DW-11*	PLUS Switch and Sensor, 1 Button 1 Rocker	Single-Zone Dimming	Legrand Radiant or any standard decorator size	N	Y	N	W, I, A, G, BK, B, R
	EN-DW-20*	PLUS Switch and Sensor, 2 Button	Single or Dual-Zone On/Off	Legrand Radiant or any standard decorator size	Y	N	N	W, I, A, G, BK, B, R
	RTI-KX4	4" In-Wall LCD Touchscreen Keypad	Multi-zone Touchscreen	N/A	Y	Y	Y	W
	IST-10	10" In-Wall Touchpanel Keypad	Multi-zone Touchscreen	N/A	Y	Y	Y	W

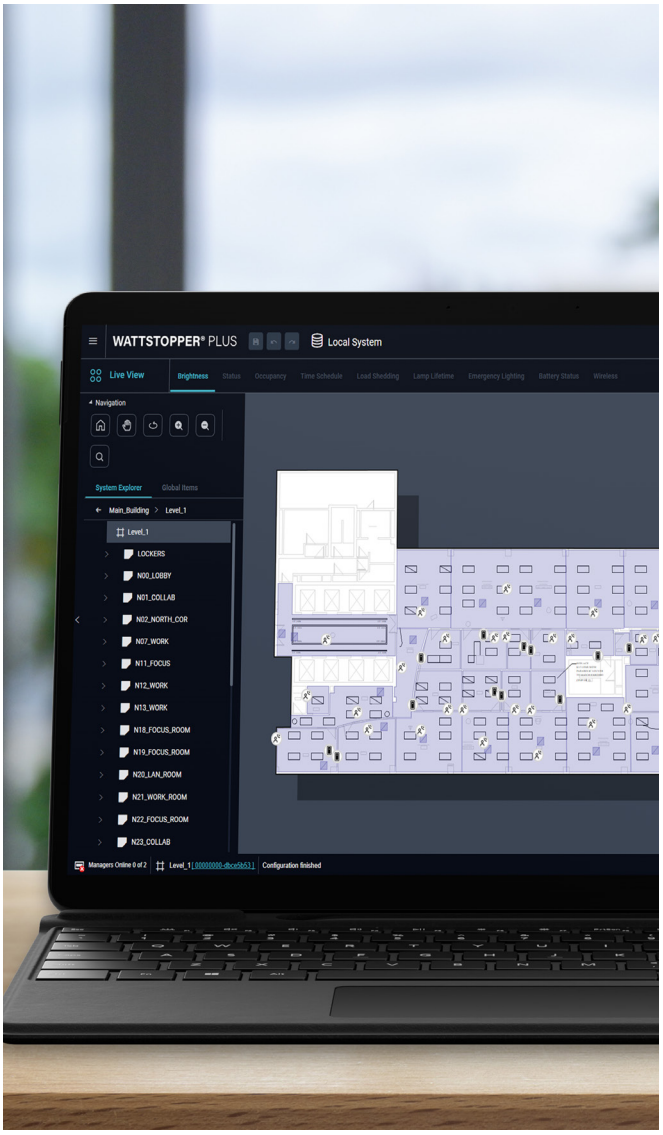
* Information applies to both "-GB2" wired and "-ZB" wireless models.
See product cutsheets for detailed ordering information.

Configuarion Tools

POLARIS™

Bring Visibility & Control to the Wattstopper PLUS System

Polaris software is at the core of Wattstopper PLUS — empowering facility managers and enabling the Wattstopper PLUS Experience. Our advanced Polaris Monitor software is intuitive and easy to use thanks to new workflows, multi-device access, and other enhancements.



POLARIS™ MONITOR

EASY NAVIGATION

With a floorplan view, it's easy to navigate an entire building, so you can monitor conditions and adjust as needed.

INFORMATION AT A GLANCE

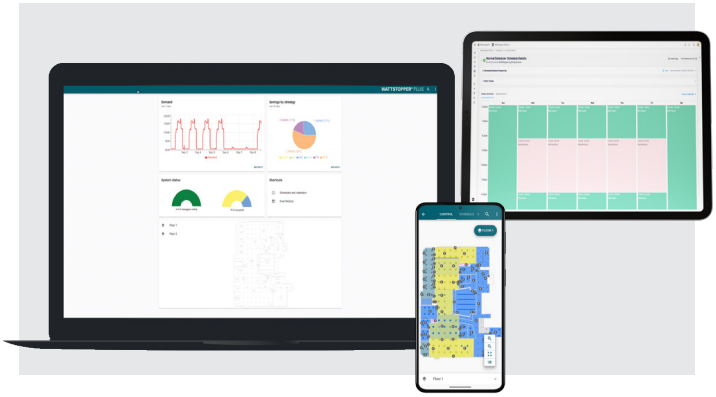
Polaris Monitor dashboard gives you a clear view of your entire building or campus.

TROUBLESHOOTING TO GO

Multi-device access lets you troubleshoot with ease from your mobile device and from wherever you are.

READILY AVAILABLE INSIGHTS

Advanced reporting capabilities that give you deeper insights on power consumption, savings, occupancy, and more.



POLARIS™ CONFIG

Configuration is the first step towards your complete Wattstopper PLUS lighting control system. We recognize its importance with Polaris Config, special software that helps make the process faster and easier. Once the system is configured, the initial work of Polaris Config is done. When you're ready to enhance or expand your system, Polaris Config is ready to help.

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