ARISTA®

Advanced Lighting Control System

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INTERMATIC®

Simple, Connected, Contractor-Friendly

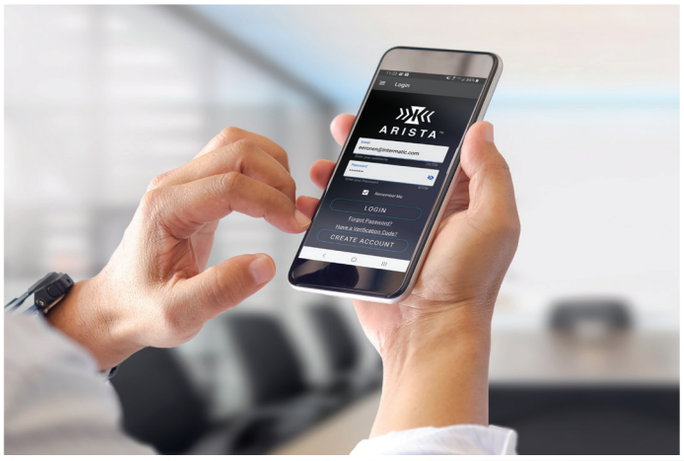
Take the hassle out of commercial lighting installations with the contractor-focused **ARISTA®** Advanced Lighting Control System from Intermatic.

Introducing the expanded ARISTA portfolio, a customizable smart lighting control solution for commercial and municipal buildings. The simple wireless system empowers installers of all technology backgrounds to integrate dynamic code-compliant lighting control in a wide range of applications.

ARISTA®

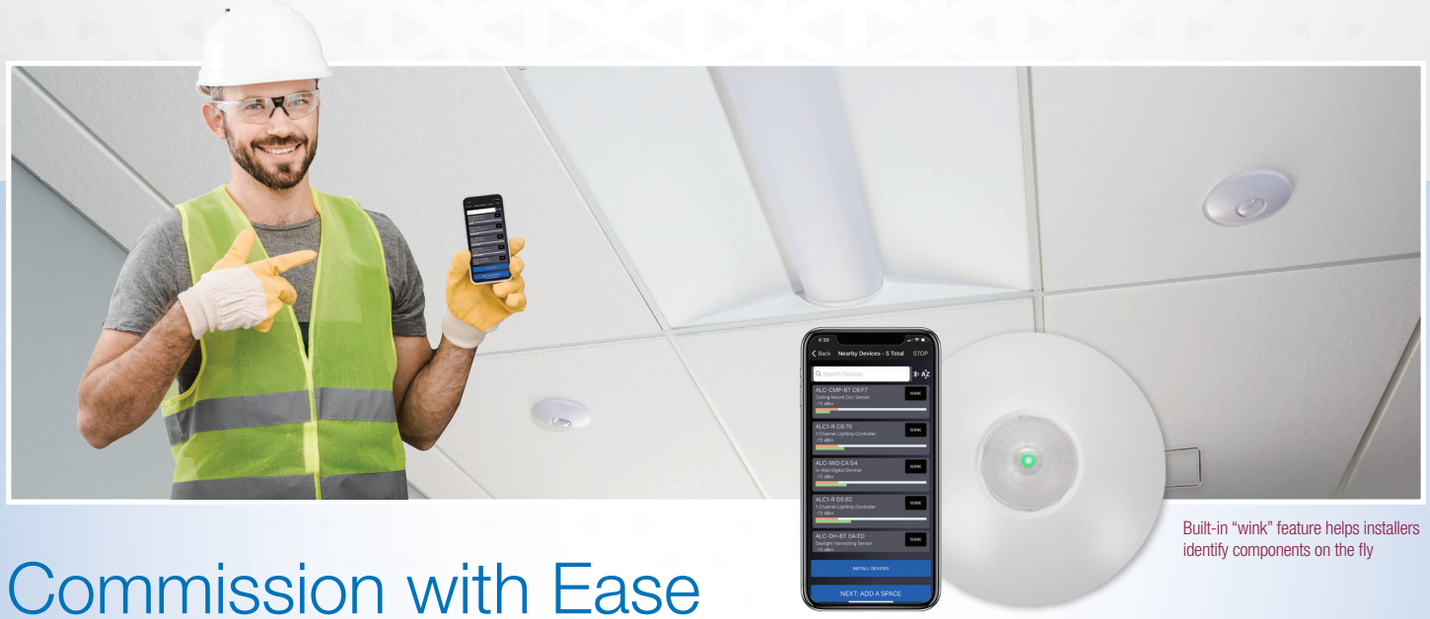
Simple, Adaptable Components

A suite of modular components makes it easy to install and configure ARISTA in a wide range of commercial applications. Bluetooth wireless communication and optional battery-powered sensors help speed up installations by reducing wiring needs.



Easy Smartphone Setup

Use the ARISTA app to breeze through installation and manage settings once setup is complete. Permission new users to share access and control based on occupant, facility manager or inspector needs. (Available for Apple iOS and Android devices.)



Built-in "wink" feature helps installers identify components on the fly

Commission with Ease

Quickly identify components and adjust system settings in real-time using the ARISTA app. Contractors may also view multiple sites/projects from a single smartphone to streamline work.

Tailored to Meet Your Needs

A versatile suite of controllers and sensors makes it easy for specifiers to customize the ARISTA® Advanced Lighting Control System to meet project requirements. This modular design allows for seamless expansion and customization as new needs arise.

Controllers

The “brain” of the ARISTA system, the Room Controller connects to the primary load, has wired or wireless inputs, drives schedules using a real-time clock, has adjustable light level settings, all accessible through the smartphone app via Bluetooth mesh technology. Our expanded line now includes a phase dimmer (ALC1-P), which can be used with sconces and track lighting for added flexibility.

ALC1-R

ALC2-R

ALC4-R

ALC1-P

Programmable Switches

ARISTA In-Wall Controls give occupants manual control of select features, including ON/OFF, dimming, and countdown timers. All in-wall controls also allow for scene selection, which allows users to toggle between preset lighting configurations. Due to their wireless design, these switches can be used in single-pole, 3-way, or multi-way applications.

ALC-IWD

ALC-2B-BT

ALC-4B-BT

Daylight Harvester

Our Daylight Harvesting Sensors help building managers make the most of natural light while promoting occupant comfort and energy efficiency.

ALC-DH-BT

Occupancy and Vacancy Presence Sensors

Convenient and energy efficient, Presence Sensors reduce energy costs by ensuring lights are on only when a space is occupied. They can configured for automatic or manual ON operation, then turn OFF automatically.

In-Wall Sensors

ALC-PI-BT-WH

ALC-DT-BT-WH

Wall-Mount Sensors

ALC-WM-BT

ALC-WM-DT-BT

Ceiling Sensors

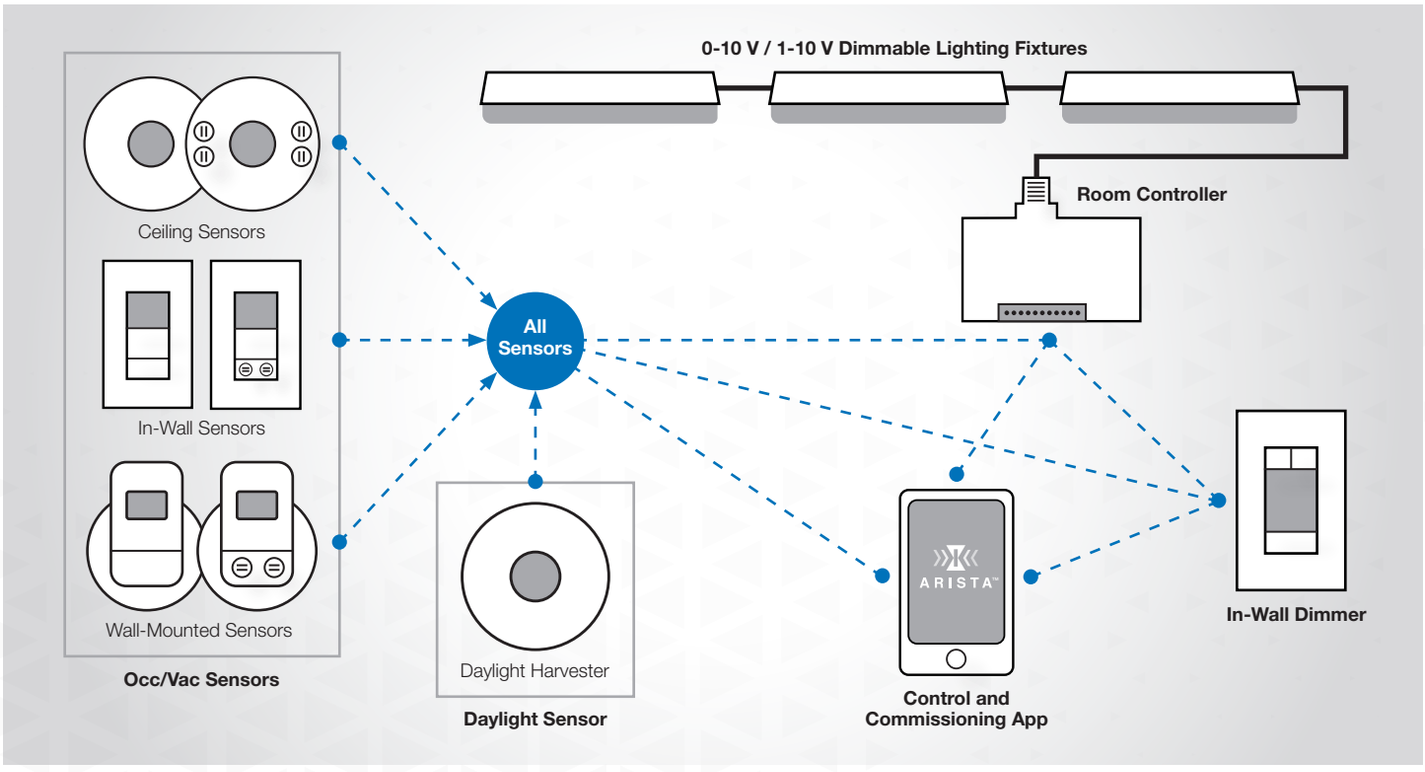
ALC-CMP-BT ALC-CMP-DT-BT

Safe and Secure Networking

ARISTA uses a secure Bluetooth mesh protocol that allows components to communicate without the need for a traditional local area network. Every device transmission is protected by three 128-bit encrypted security keys.

Each Bluetooth enabled component is its own wireless node for sending, receiving and sharing control commands through a wireless mesh network. Expandability is easy with each device passing information to the next thus expanding the reach and control throughout the network.

System Diagram - Bluetooth 5.0 Mesh Network



Code Compliance

ARISTA meets the requirements of all major energy codes and has a variety of versatile components that make energy code compliance easy. Once the devices are selected, installed and commissioned compliance can be achieved by programming the devices through the ARISTA app according to your local energy codes.

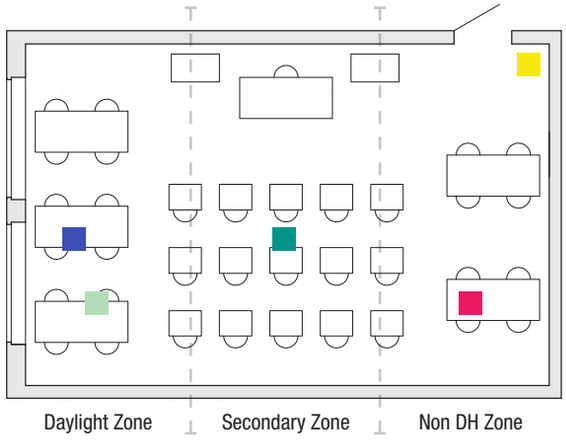
Built for Projects Big and Small

Bring smart control and energy efficiency to applications ranging from schools and hospitals to office buildings and retail spaces.

Example: Classroom

Application Notes

- 1,200 ft² classroom operates 5-day schedule with occasional holiday closures, alternate dismissal times and seasonal breaks
- 3 controllable zones: Daylight, secondary and Non DH
- Large windows provide natural light to main zone most mornings; secondary zone requires consistent supplemental light during all hours of operation

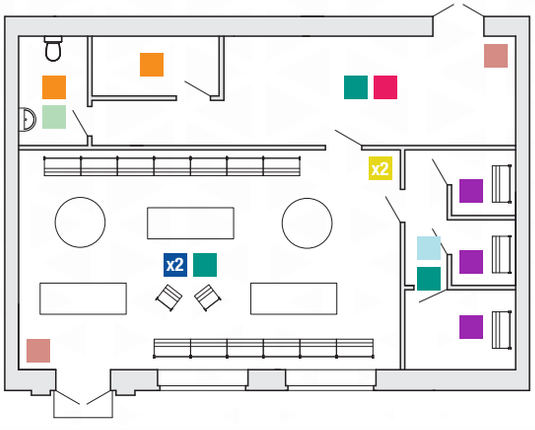


Description	Color Code	Qty.
Controller (ALC1-R)		1
Controller (ALC2-R)		1
4-Button In-Wall (ALC-4B-BT)		1
Dual-Tech Ceiling Sensor (ALC-CMP-DT-BT)		1
Daylight Harvester (ALC-DH-BT)		1

Example: Retail

Application Notes

- 2,500 ft² retail space operates 7-day schedule with occasional holiday hours, closures
- Occupancy sensors installed in fitting rooms, restroom and supply closet
- Limited natural light requires entire space to be supported with supplemental lighting



Description	Color Code	Qty.
Controller (ALC1-R)		1
Controller (ALC2-R)		2
Controller (ALC4-R)		1
Controller (ALC1-P)		2
In-Wall Dimmer (ALC-IWD)		2
2-Button In-Wall (ALC-2B-BT)		2
PIR In-Wall Sensor (ALC-PI-BT)		2
PIR Ceiling Sensor (ALC-CMP-BT)		3
Dual-Tech Ceiling Sensor (ALC-CMP-DT-BT)		3

Benefits for Occupants and Owners

From managing tenant turnover to fine-tuning preferences for extra comfort, ARISTA delivers lasting benefits to building owners, facilities managers and occupants alike.

An Easy Handoff

Once fully installed, ARISTA allows building managers to add new users via the mobile app and set permissions for the zones and settings each individual occupant can adjust. An LCD on the In-Wall Dimmer allows all occupants to view current settings and temporarily adjust light levels while staying within defined system parameters.

Designed for The Long Haul

ARISTA's modular design allows building owners to add, remove or reconfigure components at any time. This flexibility offers great long-term value as tenants turn over in commercial spaces and lighting needs shift.

Additional Product Details

- Controllers are line powered for long-term reliability and performance
- PIR and Daylight Harvester Ceiling Sensors can be wired or battery-powered to reduce installation costs and streamline setup
- Ceiling mounted sensors have three mounting options (spring mount, surface mount, flush mount) for added flexibility during installation
- ARISTA implementations can range from a few components to several hundred controllers and sensors
- All ARISTA components include a limited 5-year warranty

Controllers




	Room Controllers			
Model #	**ALC1-P**	**ALC1-R**	**ALC2-R**	**ALC4-R**
Function	Dimming; Remote Controllable; Scheduled Dimming; Scheduled ON/OFF			
Operation/Features	Holiday; Astronomic; Daylight Saving Time; Countdown			
Fixture Control	Dimmable lighting fixtures	0-10 V / 1-10 V Dimmable lighting fixtures		
Communication	Bluetooth/Wired			
Operating Voltage	120-277 VAC, 60 Hz			

Occupancy and Vacancy Presence Sensors






	In-Wall Sensors		Wall-Mount Sensors		Ceiling Sensors	
Model #	**ALC-PI-BT-WH**	**ALC-DT-BT-WH**	**ALC-WM-BT**	**ALC-WM-DT-BT**	**ALC-CMP-BT**	**ALC-CMP-DT-BT**
Function	Occupancy; Scheduled ON/OFF; Vacancy					
Sensor Type	PIR	Dual-Tech	PIR	Dual-Tech	PIR	Dual-Tech
Coverage Area	1200 sq. ft^2					1300 sq. ft^2
Communication	Bluetooth		Bluetooth/Wired			
Operating Voltage	120-277 VAC, 60 Hz		3 V Battery, 24 VDC	24 VDC	3 V Battery, 24 VDC	24 VDC

Programmable Switches



	In-Wall Dimmer	2-Button In-Wall	4-Button In-Wall
Model #	**ALC-IWD**	**ALC-2B-BT**	**ALC-4B-BT**
Function	Dimming; ON/OFF		
Operation/Features	Works with all ARISTA controllers (1 to multiple units)		
Fixture Control	-		
Communication	Bluetooth		
Operating Voltage	120-277 VAC, 60 Hz	24 VDC / Battery (CR2032)	

Daylight Harvesting Sensor

	Daylight Harvester
Model #	**ALC-DH-BT**
Function	Open or Closed Loop Ambient Light Level Detection
Sensor Type	Daylight
Light Ranges	.1 - 30, 3 - 300, 30 - 3000 fc
Communication	Bluetooth
Operating Voltage	3 V Battery, 24 VDC

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ARISTA™ Case Study

Commercial Office Installation: Bloomingdale, IL

ARISTA™ Paves the Way for Happy Tenants, Lower Utility Costs

Leasing commercial office space is a lot like renting units in an apartment complex, according to Wendie Peters, owner of two suburban office buildings in northwest Illinois. At the end of the day, tenants just want a place they can call home.

But landing a new tenant (or keeping an existing tenant happy) isn't always straightforward. The decision to sign or extend a lease can hinge on the smallest of details.

That's why it was a no-brainer for Peters to upgrade one of her 1,200 sq. ft. office units with the ARISTA™ Advanced Lighting Control System. In her view, installing ARISTA was a cost-effective way to modernize her space while promoting energy-saving best practices.

"Utilities are only going up, and every improvement helps," says Peters. "Sometimes it's better to spend a little extra up front if it's a long-term benefit for the building (and tenants)."

In December 2021, Wendie outfitted the office with a combination of ARISTA room controllers, sensors, and in-wall controls while also updating existing light fixtures to LED. The system would ensure lights turned on at a comfortable level whenever they were needed but then shut off when the office was not in use.

Long-term tenant of the space, Pete Semenek, chairman of a regional non-profit organization, saw the benefits immediately.

"The month after Wendie installed ARISTA, our electric bill dropped by about 12%," says Semenek. "I almost didn't believe it because it was so drastic."

In addition to a drop in monthly utility expenses, Semenek appreciated how lights turned on automatically in meeting rooms and common areas (and shut off automatically), giving him one less thing to worry about in his busy day.

"It took me a few weeks to get used to not having to turn the lights off. But now it's great – I don't even think about it," says Semenek. "If I'm working late, the whole back of the office will be dim. I can go right from my office out the side door without re-triggering the lights."

Getting Started with ARISTA

Much like the seemingly overnight drop in energy costs, Peters and Semenek were impressed by how fast they were able to get ARISTA up and running.

After discussing day-to-day lighting needs with Semenek and his team, Wendie worked with her electrical contractor and an Intermatic representative to determine the ideal configuration of ARISTA components. They knew they'd want to tailor schedules around regular business hours (7:30am to 4pm on weekdays) and account for both their everyday staff of 2-3 individuals and times when 5 or more people would be in the office for special meetings.

In less than two days, a trusted electrician replaced outdated fluorescent fixtures throughout the office and installed a total of 27 ARISTA components.

At the core of their ARISTA setup was an ALC1-R room controller, which was used to drive daily schedules, set dimming levels and connect with the ARISTA app via Bluetooth® mesh technology. The configuration also included 9 presence sensors, which were placed in private offices, a hallway, a meeting room, and a common work area, as well as a daylight harvesting sensor and 9 in-wall controls.

Once the basic installation was complete, the electrician worked with Wendie and Pete to create admin accounts for the ARISTA app, which allowed them to tweak schedules and adjust parameters, such as maximum run level and dimming levels, at their convenience.

Finding the Perfect Balance

Though installation was completed in a matter of days, being able to 'live' with ARISTA and fine-tune settings gave Pete and his team the opportunity to customize their space and meet everyone's needs. It also showed that it was possible to be mindful of energy consumption without sacrificing comfort or productivity.

"After the system was installed, I customized the dimming levels and shut-off times in my office to make it feel more comfortable," says Semenek. "Some people like it darker, but for me, the lights need to be on all the way to do my best work."

In contrast to Pete's preferences, a co-worker in an adjacent office chose to set the threshold of their daylight harvesting sensor to take advantage of natural light, even if it means a dimmer workspace in some cases.

Moreover, Semenek cites the system's manual override function (and its automatic reset feature) as a practical way for his team to control lighting for ad-hoc needs without jeopardizing schedules or system settings.

"I appreciate that I can manually turn the lights on at the wall if I need to," says Semenek. "Then in 20 minutes the system resets. It's a big plus for us and helps ensure our programming doesn't get messed up if new people are in the office."

The tailor-made ARISTA configuration allows Pete's staff to stay focused on what matters most – their work.

"ARISTA is perfect for our needs," says Semenek. "It's added convenience to our day-to-day and is saving us money – I'd recommend it."

A Bright Future Ahead

With Pete and his team enjoying the creature comforts and financial benefits of a smart lighting system, Wendie has already set her sights on her next building project.

"Now I need to install ARISTA in the lobby and hallways – the savings is too good to pass up," says Peters.

Although Wendie was familiar with the Intermatic brand, having installed multiple ET Series controls and ST01 in-wall timers, ARISTA was her first step into the world of smart lighting controls. That willingness to get out of her comfort zone is sure to pay dividends. She believes solutions like ARISTA will be the difference when marketing her commercial properties for years to come.

"This is new territory for us, but I'm so glad we made the jump," says Peters.

"Having a smart lighting control system is a point of differentiation, especially when prospective tenants are choosing between comparable spaces. I'm going to have my real estate agent include it as an upgrade on our listings."

Ready to make ARISTA a part of your next commercial upgrade? Contact your local Intermatic representative today and visit **Intermatic.com/ARISTA**.

Customer Snapshot

Customer: Wendie Peters (commercial real estate)

Location: Bloomingdale, Illinois

Application: Office lighting control

Key Takeaways:

- Peters installed ARISTA to attract commercial tenants, promote energy efficiency
- Placed 27 ARISTA components (e.g., sensors, controllers, in-wall dimmers) throughout a 1,200 sq. ft. office setting
- Quick two-day installation included conversion of outdated fluorescent fixtures to LED
- Tenant saw immediate impact with ~12% decrease in electric utility costs

Scan for our ARISTA Installation Walkthrough - Office Lighting Control Case Study

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