



Product specifications

Enable smart fixtures with:
ADVANCED LOAD CONTROLLER

20AMP load controller and relay
 with 0-10V output for dimming



PRODUCT OVERVIEW - rANA

The Amatis Advanced Load Controller (ALC) is a power load controller designed to run individual fixtures up to entire branches of lighting loads, including recessed lights, wall sconces, and accent lights. The ALC communicates wirelessly via our 6LoWireless protocol.

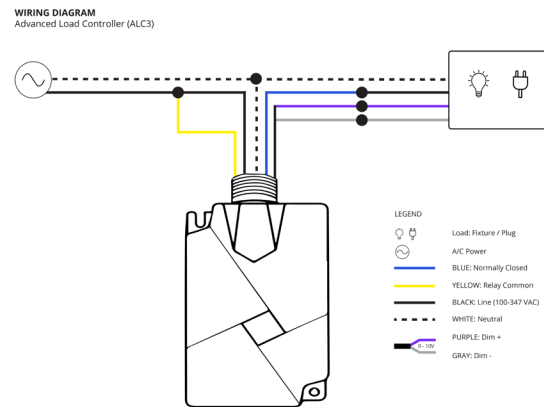
The ALC includes a relay to switch drivers and circuits on and off, as well as a 0-10V output able to control the dimming of one or more drivers. Every ALC includes an RJ12 port designed to connect with the Amatis Controls Sensor2 MLTH. When connected, the sensor can detect occupancy, vacancy, available daylight, temperature, and humidity levels within the sensing area. Then the sensor leverages the ALC's onboard 6LoWireless communication to transmit that data across the network.

The ALC is able to measure the power consumption of its controlled fixtures or zone and uses this information to track energy consumption and detect failed drivers or lamps.

FEATURES

FIXTURE CONTROL FUNCTIONALITY	Controls individual lights and light groupings
	20AMP power load controller
	Plug load control allows control receptables to be disabled when rooms are vacant, saving energy
	Self-contained relay switches line voltage loads
	0-10V output able to control dimming of one or more drivers
	Demand-response ready with accessible APIs
	RJ12 input for MLTH2 Sensor detecting motion, light, temperature and humidity
EASY, PLUG-AND-PLAY INSTALLATION	Onboard power metering
	Quickly installs using a 1/2" knock-out on a junction box or fixture
SIMPLE, WIRELESS COMMISSIONING	LED indicate power and network connection status
	Remotely configurable / upgradeable
	Amatis app easily commissions the AMBR and all devices on the mesh network
CODE COMPLIANCE	Unique IPv6 address
	Real-time data uploaded to the Energy Dashboard
WARRANTY	Complies with ASHRAE 90.1-2016 and CA Title 24 requirements
	5-year limited warranty with uninterrupted connection of the Amatis Border Router device from a network

WIRING DIAGRAM



LED INDICATOR REFERENCE TABLE

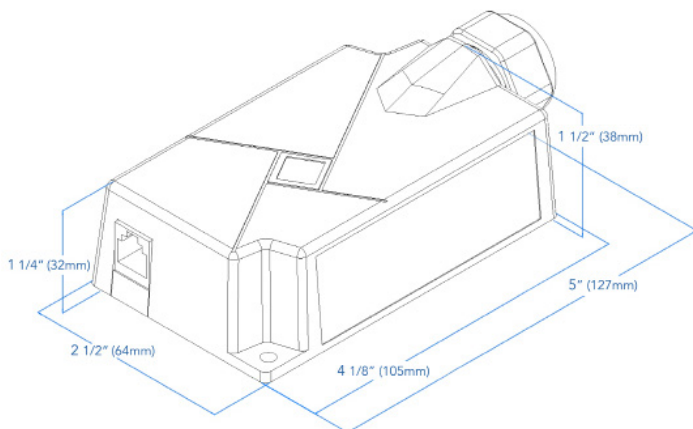
BEHAVIOR	MEANING
OFF	No power (unless disabled)
Slow blink	Looking for network
Fast blink	In pairing mode
Solid	Connected to AMBR (normal)

TECHNICAL SPECIFICATIONS

COMMUNICATION	Wireless transmit range*	Up to 200 feet to nearest mesh connected device
	Communication Protocol	Embedded 6LoWireless
	Encryption	AES 128-bit
ELECTRICAL	Input power	100-347VAC 50/60Hz
	Output	Class 2, 150mA @ 16VDC
	Dimming	0-10V, 1-10V source or sink operation
	Power metering	Accurate to within 5%
	Relay	20A @ 120VAC
		16A @ 277VAC
1/2HP @ 120/277VAC		
7A @ 347VAC		
	Isolated Normally Open and Closed contacts	
MECHANICAL	Dimensions	4 ½" (105mm) w or 5" (127mm) w with cap 2 ½" (64mm) h 1 ¼"(32mm) d
	Color	Black, White, Red, Violet, Gray
	Finish	Matte
	Enclosure	Type 2, Plenum Rated
	External outputs	On-board button for manual control, ETL
ENVIRONMENTAL	Installation environment	Commercial, Indoor/Covered
	Temperature range	For 120V & 277V: -22 °F (-30°C) to 130°F (+55°C) For 347V: -22 °F (-30°C) to 122°F (+50°C)
GENERAL	Standards / Rating	FCC, ETL, UL 60730-1 and UL2043 Device contributes to Amatis system compliance with ASHRAE 90.1-2016 and CA Title 24 requirements

*Based on clear line of sight. Interior obstructions may limit range.

Dimensioned isometric



Note: Actual performance may vary as a result of end-user environment and application. Specifications subject to change without notice.

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