

ALC20

20AMP Advanced Load Controller

PRODUCT OVERVIEW



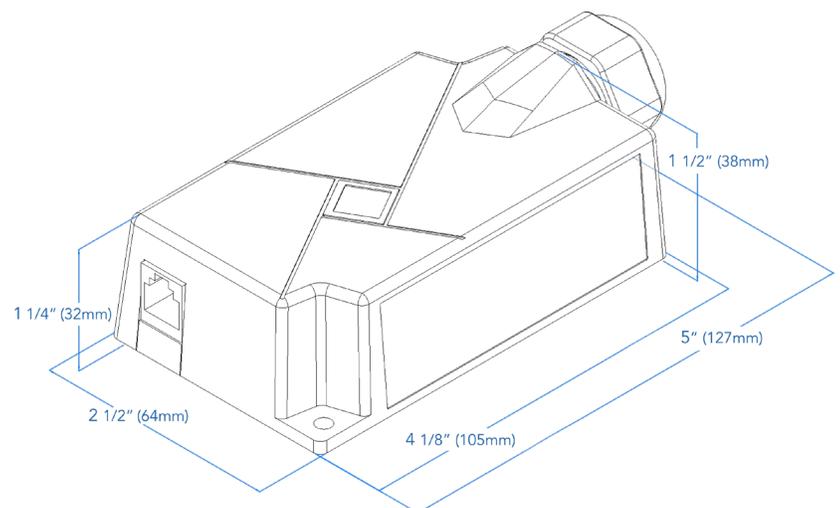
The Amatis Advanced Load Controller (ALC20) is a power load controller designed to run either individual fixtures or entire branches of lighting loads, including recessed lights, wall sconces and accent lights. The ALC20 communicates wirelessly within our proprietary 6LoWireless protocol.

The ALC20 includes a relay to switch drivers and circuits on and off, as well as a 0-10V output able to control dimming of one or more drivers. Every ALC20 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 ALC20's on-board 6LoWireless communication to transmit that data across the network.

The ALC20 is able to measure the amount of power passing through it to its controlled fixture or zone and then uses this information to track energy consumption and detect failed drivers or lamps.

FEATURES

Plug and play installation
LEDs indicate power and network connection status
On-board power metering
Burnt bulb detection and alert
Mesh communication up to 200 feet between nodes
Unique IPv6 address
Open source OS for third-party integration
Real-time data uploaded to the Energy Dashboard





TECHNICAL SPECIFICATIONS

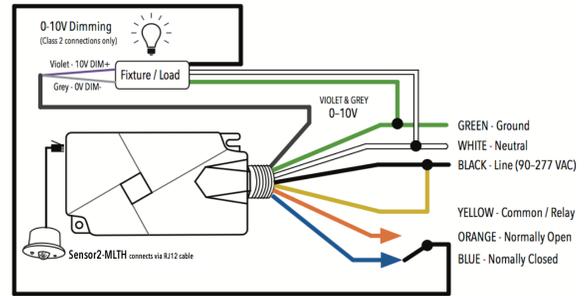
Input Power	90-277VAC, 50/60Hz
Range	Up to 200 ft
Dimming	0-10V, 1-10V Source or sink operation
Power Metering	Accurate to within 5%
Temperature Range	-15°C (5°F) to +55°C (130°F)
Enclosure	Type 2, Plenum Rated
External Outputs	On-board button for manual control
Output	Class 2, 150mA @ 17VDC
Certifications	FCC, UL 508 and UL 2043
Relay	Rating NO and NC contacts 20A at 120/240VAC
	Rating NO contact 16A @ 277VAC
	Rating 1/2HP at 120/240VAC
	Isolated Normally Open and Closed contacts

The 6LoWireless mesh network is a robust communication system used by all Amatis Controls devices to communicate commands and data across the building. Each device is in constant communication with other devices in the network, thereby eliminating range limitation, creating a system that is fault-tolerant should one of the devices lose communication and allows for a system that acts cohesively across zones.

The Amatis Border Router (AMBR) communicates with other devices in the network via 6LoWireless communication and then sends the data to the Internet using Ethernet or cellular connections. This aggregated data is available through the Amatis Energy Dashboard. AMBR also uses this internet connection for our device commissioning app.

The Amatis communication system is built on IPv6 protocol standards; the language of the Internet. This allows us to protect all of the data with the same 128-bit encryption used by banks, e-commerce and other secured websites. As security protocols for the entire Internet are updated, so are ours. This means all of your data is not just secure today, but always.

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)

Complete Your System With:
Amatis Border Router (AMBR)
Sensor2 MLTH
Switch

