

Description

The Autani *AFC-A* Dimming Fixture Controller is a wirelessly managed 120/277/347VAC plenum rated lighting controller with integrated daylight harvesting support.

In addition to schedules and demand response events enacted by *EnergyCenter* software, the *AFC-A* can be deployed with local control, daylight harvesting control, or both. A standard power pack such as the Autani *UVPP* powers the Fixture Controller and provides a low end cutoff relay for connected loads.

Using *EnergyCenter*, occupancy detected by sensors connected to networked Room Controllers (like the *WRC*) can be used to determine light level, daylight harvesting setpoints, or maximum light level. Autani's *Trulevel* dimming records actual light levels as they are set, providing flawless, repeatable performance even if the light source degrades.

As a network device, the *AFC-A* is controlled by an Autani *Manager* appliance running *EnergyCenter* software. *EnergyCenter* manages lighting circuits based upon time schedules, local control, occupancy, light levels, demand response curtailments, computer activity, and door openings or closures.

Applications

AFC-A fixture controllers are suitable for renovation, upgrade, and new construction projects where individual fixture control and/or monitoring is desired.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



Features

- Multi-Voltage Compatible, 120 to 347VAC
- Control of up to ten 0-10VDC dimmable fluorescent or LED lighting fixtures (Advance Mark 7 ballast or equivalent)
- Suitable for individual fixture control or zone based control schemes
- Sensor input for selected 0-10VDC photocells to support daylight harvesting with an unlimited number of targets or setpoints
- Local control input for selected 0-10VDC dimmer controls
- *Trulevel* dimming for lumen maintenance provides constant output over the life of selected LED fixtures
- Assignable guardband and delay for daylight harvesting applications to prevent unwanted changes in light level
- Connected sensors and controls function locally if Network Communications are lost
- Supports EnOcean wireless switches, contacts, sensors, and key card holders
- UL Listed & Plenum Rated
- **Designed & Made in the USA**

Specifications

ELECTRICAL

- Input Voltage: 12-30VDC / Input Current: 20-100mA
- Output Voltage: 10V / Output Current: 1mA
- 0-10VDC Analog Input (Channel 1 and 2): 0 to 10V
- 0-10VDC Analog Output: 0 to 10V
- Designed to comply with IEC 60929 (Annex E) standard

WIRING

- Low Voltage & 0-10V Wiring (Class 2): 18-20 gauge recommended

I/O PORTS

- Channel 1: 0-10VDC Daylight Sensor/ Photocell
- Channel 2: 0-10VDC Local Dimmer Control

RADIO NETWORK (*autaniNet*)

- IEEE 802.15.4-2003 2.4GHz ISM
- Range: Up to 2000' LOS transmit/ receive

REGULATORY APPROVALS

- FCC: V8NZRB1000152 & IC: 7737A-ZRB1000152

ENVIRONMENTAL

Test condition of all ratings 25°C

- Operating Temperature: 0° to 60°C
- Storage Temperature: -25° to 80°C

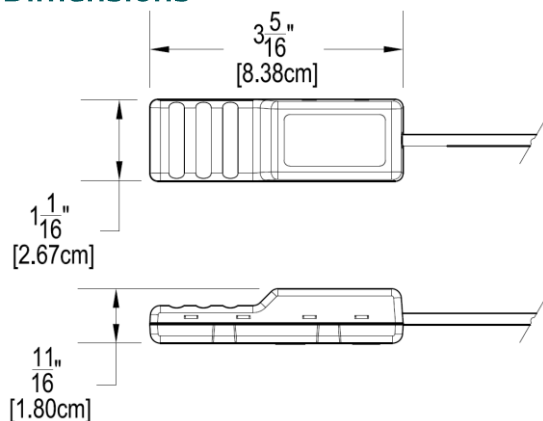
PHYSICAL

- Dimensions (HxWxD): 3.35 x 1.07 x .71in
- Color: White
- Weight/ Shipping Weight: <10 oz/ <1lb



Indoor use only

Dimensions



Ordering Information

SKU	Description
A02-01-0009-01	AFC-A Dimming Fixture Controller, 0-10VDC interface, 120 to 347VAC <i>(Requires UVPP for power, low end cutoff)</i>
A02-01-0009-02	AFC-CRDimming Fixture Controller, includes control relay drive output for use with ARC <i>(Requires UVPP for power, low end cutoff)</i>
Optional Accessories	
A02-05-0125-02	UVPP Universal Voltage Power Pack (120 to 277VAC)
A02-12-0001-01	0-10VDC Local Dimmer Control with On/Off switch
A07-01-0403-01	<i>autaniNet</i> Wireless Range Extender. Includes 24VDC Power Supply with parallel blade plug.
EnOcean Wireless Accessories	
<i>For additional information, see the individual product's data sheet.</i>	
A02-22-0213-01	Single Rocker Pad, Wireless, 902MHz, White
A02-22-0214-01	Double Rocker Pad, Wireless, 902MHz, White

One-Line Diagrams

