Aclara Lighting Controller
With TWACS®

The transition to smart lighting is well underway in North America, but smart lighting is more than the changeover to Light Emitting Diode (LED) lighting technology. While there are many intrinsic benefits to LED lighting, these benefits realize their full "smart lighting" potential when implemented with a smart lighting system that leverages your TWACS AMI communication network. Aclara Lighting Controllers (ALC) provide the opportunity to integrate not only your LEDs but also other lighting fixtures into a smart lighting system.

Historically, light fixture management was driven by customer complaints, often resulting in delayed responses and adversely affected customer satisfaction. Aclara Lighting Controller meets the utilities' need to remotely monitor and control outdoor lights. Alerts are available to identify failed or malfunctioning luminaires. Disconnects and reconnects can be handled efficiently and safely from the office. Gone are the days when a line crew needed to be sent to inspect a light or connect/disconnect a lighting service.

In addition to fixture monitoring and manual control, the lighting controller uses an advanced sunset/sunrise control that eliminates the need for photocells and allows for scheduled off/on events. Its on-board metering provides the ability to capture actual use or to quantify savings from utilizing the new lights and/or their control features.

FEATURE AND BENEFITS

- Universal Application – works with both LED and HPS up to 1000W

- No additional network costs – works with your existing Aclara TWACS® AMI network

- Standard NEMA Connection – mounts in 3, 5, or 7 pin photocell twist-lock sockets

- Standard Metering Capabilities – +/- 5% accuracy

- Remote Monitoring and Control – health and outage alerts

- Sunset/sunrise management and savings – no photocells

- Enhance customer service – proactive response to lighting issues

- Reduce maintenance and operational costs – minimize truck rolls for luminaire maintenance and field connect/disconnects

- Easy deployment – no additional equipment needed to install

- Energy savings and conservation – usage data provides support of energy savings

- Remote Connect/Disconnect when account status change – adapts easily to your prepay/no-pay procedures

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SPECIFICATIONS OVERVIEW

Models	Aclara Lighting Controller for TWACS
Size	5.6" (141mm) x 5.3" (134mm)
Enclosure	NEMA 4X
Operating Frequency	50/60Hz (TWACS)
Operating Voltage	120V model and 240-277V model
Surge Withstand	10kV/5kA
Quiescent Power	< 0.5 W
Storage Temperature	-40^{0}C to +85^{0}C (-40^{0}F to +185^{0}F)
Operating Temperature	-40^{0}C to +60^{0}C (-40^{0}F to +140^{0}F)
Operating Humidity	0% to 95% non-condensing
Compatibility	ANSI C136.10 (non-dimming) or ANSI C136.42 (dimming) NEMA 3, 5, or 7 pin polarized twist-lock connector
Metering	+/- 5% accuracy
Sunrise/Sunset management	Astronomical Clock w/programmable offset using GPS locations
On / Off Control	Remote on-demand or scheduled control
Dimming	0-10V, through ANSI C136.41 socket
Supported Networks	TWACS powerline
Design Life	20 years

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