

TLACS' Area Dimming Enclosure (ADE)

General Description

The ADE is an integrated control cabinet specifically designed for area lighting control. The ADE is used in a TLACS-A configuration for controlling and dimming any outdoor area that needs monitoring, energy management and/or increased security.

The ADE switches ON, OFF, or dims every luminaire through a Local Product Controller (LPC) installed in the luminaires. With up to 12 stages of dimming can be provided to allow lighting adjustment.

Two main modes of operation are supported, automatic and manual.

- In **Automatic** mode, the ADE controls the light level based on a sensor (photocell, motion sensor, pedestrian button, etc.) with up to 12 stages.
- In **Manual** mode selector switches change the luminaires' levels to OFF, LOW, MEDIUM and HIGH.



Features

- Self-commissioning by any electrical contractor with an intuitive Web-based user interface for configuration
- Communication over power line to LPCs
- Manual control through HOA
- Ethernet or fiber optic connection
- Control of up to 256 LPCs per ADE
- Communication failure detection
- Individual control (ON/DIM/OFF) of luminaires
- For 100-480 VAC powerline network



Specifications

Mechanical

Item	Description
Enclosure	Painted steel or Stainless Steel
Dimensions (overall)	Length: 24 in.-30 in. (610 mm-750 mm) Width: 24 in. (610 mm) Depth: 12 in. (305 mm)

Electrical

Item	Description
Input voltage (nominal)	120-480 VAC (as per the selected part number)
Input frequency	50/60 Hz
Consumption	Max 325 W

Interface

Parameters	Description
Ethernet	RJ-45 interface 10/100 Mbit/s
Fibre optic	Single or Multimode (LC or SC)

Environmental

Parameters	Units	Min.	Max.
Operating temperature	°C	-20°C	60°C
	°F	-4°F	140°F
Storage temperature	°C	-30°C	80°C
	°F	-22°F	176°F
IP rating	IP 66		

Standards

Item	Description
Safety standards	CAN/CSA-C22.2 No. 14 UL 508A (2nd Edition)



Product Ordering Information

TLACS-ADE product identification follows the chart diagram below



Segment name (left to right)	Segment value	Description
Model	ADE	Underpass dimming enclosure
Enclosure	P	Painted steel
	S	Stainless steel
External network	1	RJ-45
	2	Fiber single mode, SC
	3	Fiber multi mode, SC
	4	Fiber single mode, LC
	5	Fiber multi mode, LC
Sensor configuration	0	No sensor
	1	Photocell (dry contact)
Power Line channel	1	220-277 VAC L-N
	2	400-480 VAC L-L
	3	347 VAC L-N
	4	120 VAC L-N
	5	240 VAC L-L

For any further information, please contact info@nyx-hemera.com

