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TECHNICAL DATASHEET · HELIPORT & AIRPORT LIGHTING · CONTROLLER

Heliport Controller V3

EcoSolaris code **ECO-AL-357** | Ordering code **AL-078-AX** | **Made in Romania** Manufactured in the EU









The V3 controller powers, controls and monitors the lighting circuits and guidance systems of heliports and airports. It has up to 8 factory-configurable independent circuits, an LCD display and local, console, GSM or air-to-ground radio control.

ORDERING CODE **AL-078-AX**	POWER SUPPLY **110–240 V, 50/60 Hz**
48 V DC OUTPUT **max. 500 W per channel, dimmable**	1.4 A CONSTANT CURRENT OUTPUT **max. 500 W per channel, dimmable**

Price on request | **EcoSolaris technical support · Dubai**

Technical specifications

Ordering code	AL-078-AX
Power supply	110–240 V, 50/60 Hz
Output circuits	8 independent ON/OFF circuits, factory configurable
48 V DC output	max. 500 W per channel, dimmable
1.4 A constant current output	max. 500 W per channel, dimmable
230 V AC output	max. 2000 W per channel, non-dimmable
Brightness steps	10%, 30%, 100% (beacon: 3%, 10%, 100%)
Modes	brightness, standby, total OFF, circuits ON/OFF
Control	front-panel buttons, RS485 console, GSM (Android app), ARCAL
LCD display	voltage, total power, brightness, system status, circuits, errors, GSM network, control rights
Light fault detection	power change > 5 W between two readings – LCD message and beep
Circuit fault detection	power change > 20 W between two readings – LCD message and beep
Monitoring inputs	3 dry contacts for APAPI, SAGA, HAPI
Electrical protection class	Class I
Protections	short circuit, overload, overvoltage, EMI filter, SPD
Degree of protection	IP65
Operating temperature	-20 °C to +55 °C
Mounting	vertical, 4 × Φ8 mm holes on a flat surface

Features

- 8 independent circuits: 48 V DC, 1.4 A constant current or 230 V AC
- Automatic beacon scaling: 10/30/100% become 3/10/100% (ref. ICAO 5.3.2.5)
- Local, console, GSM or air-to-ground radio (ARCAL) control
- Android app: full control, system status, fault message to the maintenance number
- Light and circuit fault monitoring with audible alarm
- LCD display and control rights settings
- Full protection: EMI filter, SPD, short circuit, overload

Standards and compliance

- ICAO Annex 14, Volume II – Heliports
- EMC emission: EN55032 (CISPR32) Class B, EN61000-3-2 Class A, EN61000-3-3, EAC TP TC 020
- EMC immunity: EN61000-4-2,3,4,5,6,8,11, EN55024 (light industry level, criteria A), EAC TP TC 020

Materials and construction

- Housing: powder-coated metal (grey)
- Cable gland: nickel-plated brass

Configuration options

- Configuration of the 8 outputs (48 V DC / 1.4 A / 230 V AC) set in the factory
- Flashing sequence module for the heliport beacon
- GSM module for smartphone control
- Remote control console

Ordering code structure

AL - 078 - AX

AL	Series indicator: Airfield Lighting
078	Product indicator: heliport controller V3
AX	Product type: accessory

Compatible accessories

AL-117-AX	GSM module
AL-110-AX	Console controller

Applications

Hospital, rooftop and ground-level heliports · **Small airports – series circuits over long distances** · **Offshore platforms and oil & gas sites** · **Control of floodlights and wind direction indicators** · **APAPI, SAGA and HAPI guidance systems**

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