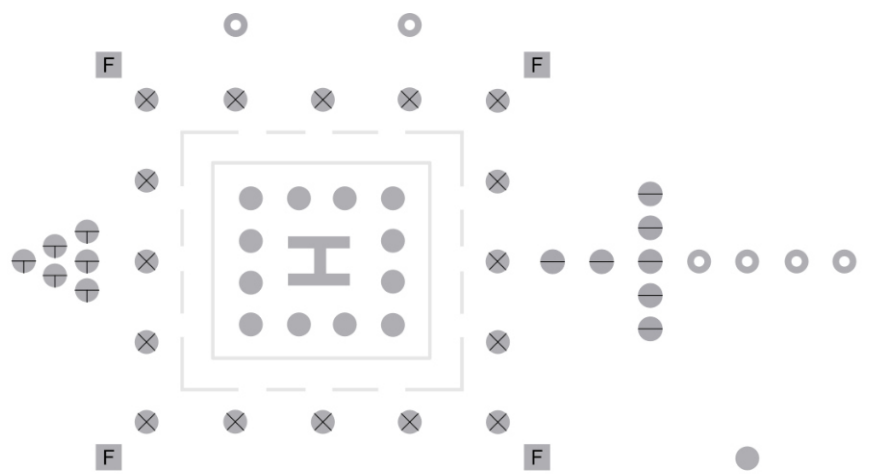
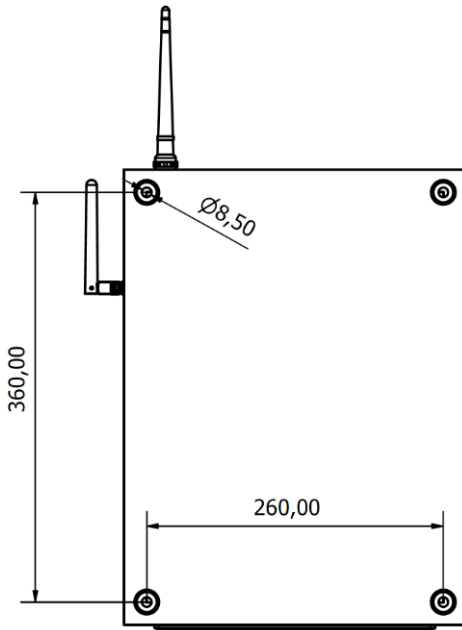


Air to Ground Radio Receiver

For Polaris System



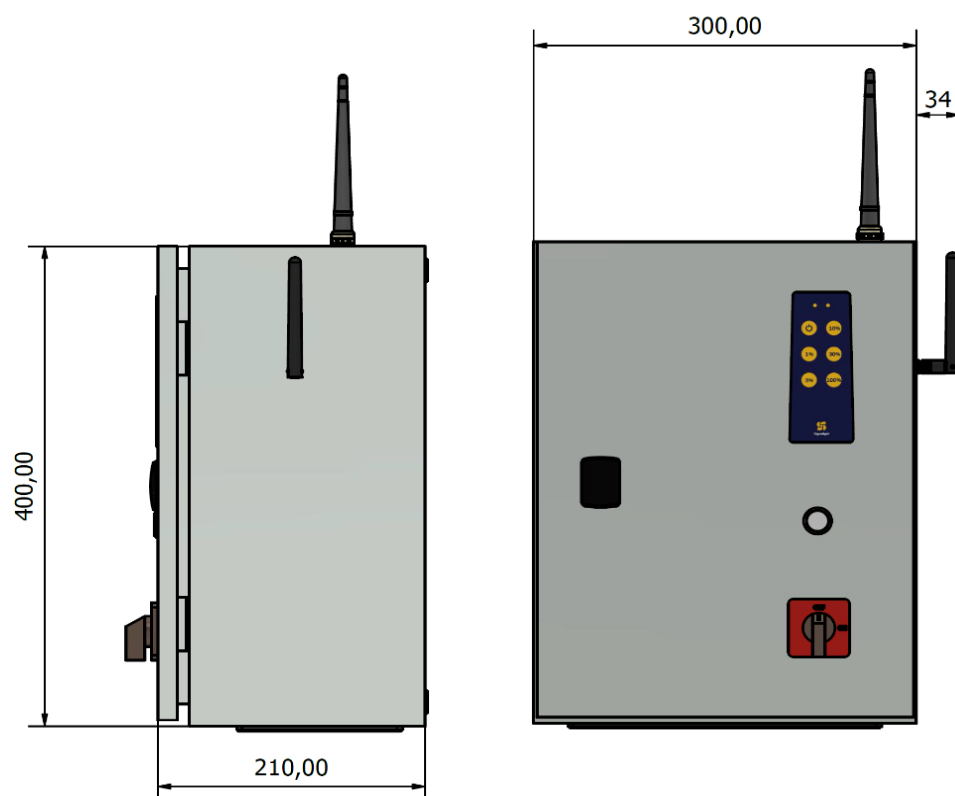
Compliance to standards	FAA: AC-150/5345-49
Application	ARCAL (Aircraft Radio Control of Aerodrome and Heliport Lighting) is a system enabling pilots to remotely activate ground lighting and select the desired brightness level.  ⊕ Aiming Point Lights ⊗ FATO Lights F Floodlights ○ Approach Lights ○ Taxiway Lights ● TLOF Lights — Approach ● Beacon Light
Features	Designed and built with simplicity and ease of maintenance in mind. Functions: If the pilot clicks on the microphone 3 times in 5 seconds, the first relay will activate and the lamps will turn on at 10% brightness intensity. If the pilot clicks on the microphone 5 times in 5 seconds, the second relay will activate and the lamps will turn on at 30% brightness intensity. If the pilot clicks on the microphone 7 times in 5 seconds, the third relay will activate and the lamps will turn on at 100% brightness intensity. The three relays trigger the commands of the LORA radio remote control.

Product code	AL -118 - AX - R Series Indicator (Airfield Lighting) AL Product Indicator 118 Description of product type (accessory) AX Radio POLARIS remote control R
Description	Housing - powder-coated metal (gray)  Cable gland - nickel plated brass
Environment	Temperature range: -10°C to +55°C Degree of protection: IP65
Mounting	Mounting points 8,5 mm at 4 locations  The radio controller must be mounted on a flat surface. In case of outdoor installation, IP protection must be ensured for fixing holes.

**Mechanical
Characteristics**

Dimensions: 400 × 300 × 210 mm

Weight: 9.6 kg



**Electrical
Characteristics**

Power supply: 240 VAC, 50 Hz

Protections: Short circuit, Over load, Over voltage

Local/Manual control

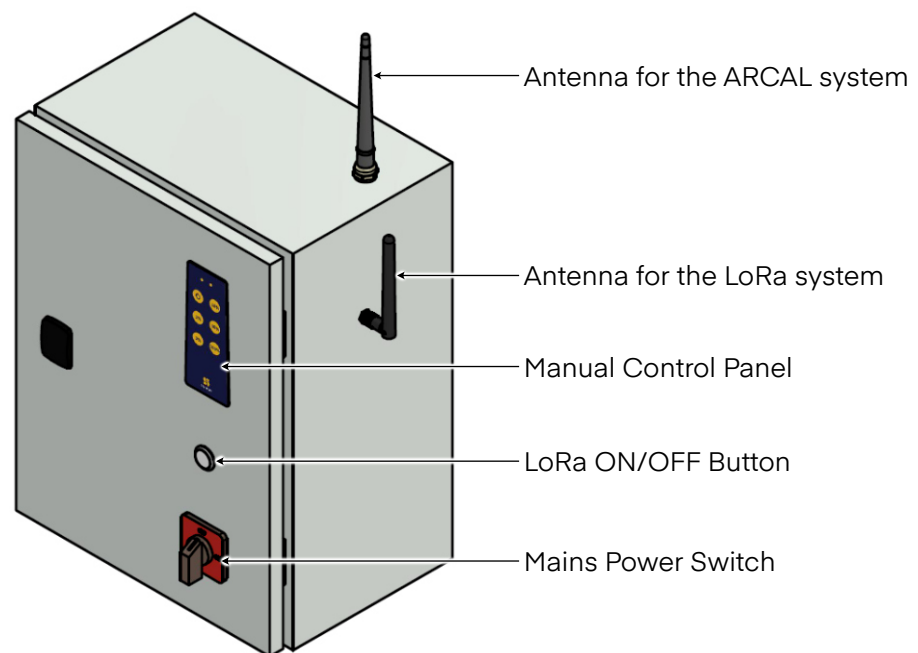
Local control

The lights can also be controlled one way using a handled remote control.

The remote control uses LORA technology and can be preconfigured at the factory to operate on one of the following frequencies: 868 MHz for Europe, 915 MHz for the United States, or optionally 433 MHz.

The brightness of the lights can be adjusted to 1%, 3%, 10%, 30%, and 100% using the remote control.

The range extends up to 10 km in direct line of sight under ideal conditions. For proper radio communication, there should be no obstacles between the antennas and the communication point.



Manual control

In addition to the commands from the ARCAL and LORA systems, the user can also control the system manually using the keypad integrated into the Radio Controller's door.

The brightness of the lights can be adjusted to 1%, 3%, 10%, 30%, and 100% using the keypad.

The grey button turns the remote control on and off.



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