



# *LUMB by GRP*

*'Feel  
your Airport'*

*Primary Cable is the Backbone*

*Enhance your ILCMS system and  
add sensors to monitor your runway*

## Field module for sensor integration.

GRP's cutting edge powerline communication system brings intelligence to your airfield becoming a Smart Airfield thanks to its reliability and robustness:

- No minimum value if insulation required.
- Shielded and unshielded primary cable.
- No repeaters required.
- Fast messages interchange.

### The Primary Cable is the Backbone

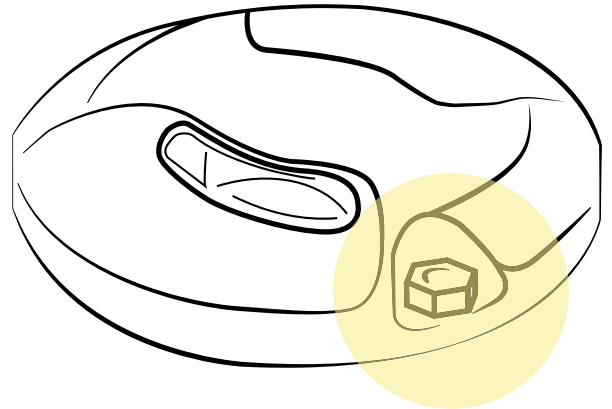


## Features

- Variable power supply from 5 to 24 Vdc to power your sensors (10W maximum).
- Four digital optoisolated inputs for any need (NPN, PNP or dry contact).
- Four digital optoisolated outputs to power or control any device.
- One analogue input 4-20 mA for any kind of parameter reading sensor.
- One RS485 serial control bus for complex sensor integration into ALCMS.

# Application examples

- Microwave barrier systems for stop bar and lead on lights automatic interlocking operation.
- Bolt monitoring for an airfield FOD free.
- Airfield Guidance Signs presence detection for extreme windy areas.
- Pits or manholes for increasing maintenance works safety.
- Pavement temperature measurement for extreme cold environments.
- Any kind of sensor to know your Smart Airfield.



## Technical specifications

- Certified according to EN 50490.
- Temperature range: -40°C to +85°C.
- IP68 filled with PUR (Polyurethane Resin).
- Current range from 1,5 A to 6,6 A.
- Electrostatic discharge (air) 8 kV.
- Surge ±4,4 kV (8/20 ms, 1 kA).
- Firmware update by RF and PLC.
- Configuration by RFID and PLC.
- High computational capabilities.
- Dimensions: 19 x 10,5 x 6,5 cm.
- Weight: 2,5 kg.
- Black ABS enclosure with PUR.
- Cable leads:
  - One male FAA connector 30cm long.
  - One multicore cable with 18p IP68 connector for digital inputs, digital outputs and analogue input.
  - One two cores cables for power supply.
  - One two cores shielded cable for RS485.



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