IOT Product Line

LoRaWAN™ Skylight Aircraft Parking Sensor

SAPS-1

EU 868 MHZ

SAPS-1 is a LoRaWAN™ enabled aircraft parking sensor featuring triple technology to provide reliable detection of aircraft presence for business aviation airports.

It allows real time information on aircraft park occupation, stay time and unauthorized usage. Monitoring of forbidden area occupation, simplifying parking survey and payment operations allowing reservation of parking slots using smartphone.

A patented triple technolgy based on incident ambient light, active infrared and magnetic field sensors allows error free detection of aircrafts even in presence of snow and heavy rain. Totally waterproof and filled with gel, it can be easily be installed allowing uninterrupted operation for five years. The integrated LoRaWAN™ technology maximizes operation distances and area coverage allowing operation with private or public LoRaWAN™ networks.

SAPS-1 is a joint project of ProEsys Srl and Nabla Quadro Srl.

FEATURES

Triple sensor technology

- Incident ambient light,
- Active Infrared
- Magnetic field.

Easy installation

- Low profile over ground
- Long battery life
- Completely remote programmable

LoRaWAN compliant

Interoperable with private and public networks

APPLICATIONS

- Critical Infrastructure monitoring
- Smart Cities
- Business Aviation Airport area

SPECIFICATIONS

Main Control Unit	STM32™ Cortex®-M0+
Power supply	Battery operated Size D LiSoCl2
LoRaWAN™ RF Module	Semtech® chip based
Operational RF Interface	863 -- 870 MHz
Supported protocol	LoRaWAN™ 1.0
Max TX Power	+14 dBm ERP
Average power consumption	400µW
RF antenna	Internal antenna
Sensor Technology	Incident ambient light, Active Infrared Magnetic field
Sampling rate	1Hz
Environmental resistance / Operating temperature	IP68 / -30 to + 85 °C
Dimensions / Weight	Ø 110mm H 85mm / 1 Kg

Specifications subject to change without notice

ProEsys Srl
Via Giacomo Peroni, 442 / 444— 00131 Roma Italy
Website: www.proesystech.com — email: info@proesystech.com
Phone: +39 06 81153553