

SP-401 SOLAR OBSTRUCTION LIGHT

TYPE A LOW INTENSITY





Compliance:

ICAO Annex 14 Vol. I (7th. Edition, July 2016)



FEATURES

- · Operates 365 days on solar energy
- 5-level protection against system failure
- · 280 hrs of autonomy

APPLICATION

Low intensity obstruction aviation light; designed for permanent usage as obstacle light in airports or helipads located in regions without access to electricity and with high photovoltaic potential.

· Five levels of protection against system failure

TECHNICAL SPECIFICATIONS

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Optics			
	 37 cd light output (tested by accredited laboratory) Omnidirectional type LED lifespan: 100.000 hrs Maximum power consumption: 1,8W NVG-compatible (optional) Color: red User-replaceable 		
Battery			
	 2 x built-in batteries Autonomy: 280 hrs (minimum intensity) Total capacity: 216W (2x9Ah/12V) Deep-cycle VRLA, 12V/9Ah (available worldwide) Lifespan: 1.200 cycles (designed for 4-5 years) User-replaceable, air transportable 		
Solar Power Sup	ply		
	 20W solar panel, separately installed Poly- or monocrystalline type Lifespan: 15 years MPPT-Temp / Built-in inverter 12-36V/2A 		
Control & Monitoring			
	Wireless mesh type network Operating frequency: 868 MHz (optional 2.4GHz or 433 Mhz) Operating range: up to 1.5 km, relayed (each light is a repeater) Operating Modes: Steady / Flashing / Dusk till dawn Visible / Infrared (optional) / Visible + Infrared (optional) Activation options: Via ALCMS Computer Interface (requires UR-201) Via UR-201 Control & Monitoring Unit Via UR-101 Handheld Controller		
Casing & Components			
	Materials Dome: glass, UV-resistant		

Casing: Lexan polycarbonate, UV-stabilized

• Dimensions (LxWxH): 549 mm x 450 mm x 431 mm

Detachable antenna
Pressure stabilizing valve
Battery level indicator
Carrying handle (optional)
Casing lifespan: 15 years

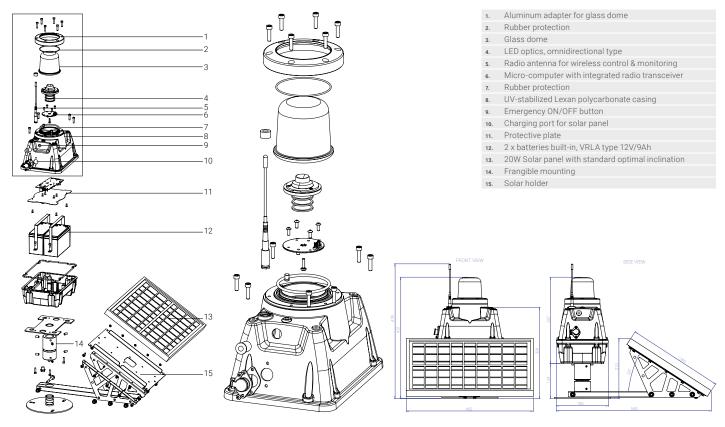
Weight: 12,4 kg

Mounting: galvanized steel (optional: marine grade stainless steel) Frangible mounting: aluminum (tested by accredited laboratory)

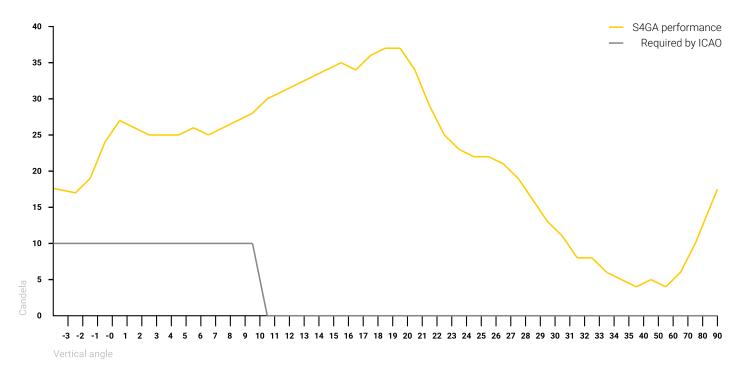
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Secondary power supply: backup battery Real-time monitoring via ALCMS				
(Airfield Lighting Control and Monitoring System)				
Emergency ON/OF	F button			
Environmental Conditions				
Temperature range: -20 to 50 °C (-4 to 122 °F)				
Optional: -40 to 80 °C (-40 to 176 °F)				
 Ingress protection: IP-67 (tested by accredited laboratory) 				
	ce: 240 kph (tested by accredited laboratory)			
Compliance				
Photometric & Chromaticity	ICAO, Annex 14th, Volume I, 7th Edition dated July 2016, table 6-2, Appendix 1, Figure A1-1b			
Jet Blast Resistance	ICAO, Annex 14th, Volume I, 8th Edition dated July 2018. Doc 9157, Part 6, clause 3.2.2 & clause 4.9.1.			
Jet Blast Resistance	FAA AC 150/5345-50B dated September 2007, clause 3.2.2			
	ICAO Doc 9157 AN901 Aerodrome Design Manual Part 6, 1st Edition dated 2006, clause 4.9			
Frangibility	ICAO, Annex 14th, Volume I, 8th Edition dated July 2018, clause 5.3.1.3			
	FAA AC 150-5345-46E clause 3.4.2.1			
	FAA AC 150/5220-23, clause 3.2			
Secondary Power Supply	ICAO, Annex 14th, Volume I, 7th Edition dated July 2016, clause 8.1.8-8.1.9 & clause 8.1.11			
CE Declaration of Conformity	2014/53/EU RED Directive, clauses 3.1a, 3.1b, 3.2			
or beclaration of comornity	2011/65/EU ROHS Directive, clause 4.1			
Accredited Laboratory Testing				
Photometric & Chromaticity	Intertek Laboratory			
Jet Blast Resistance	Warsaw Institute of Aviation The Laboratory of Aerodynamics			
Frangibility	Laborex Research Laboratory			
Ingress Protection	EMAG Institute of Innovative Technologies			
Electromagnetic Compatibility	Military Institute of Armament Technology			



TECHNICAL DRAWING



PHOTOMETRIC PERFORMANCE



SHIPPING DATA

Item	Dimensions of Package (LxWxH)	Gross Weight
SP-401 Lighting Unit	490 mm x 360 mm x 570 mm	14,8 kg
SP-401 Lighting Unit, NO batteries	490 mm x 360 mm x 570 mm	9,6 kg