Marine Lanterns

VP LED

Ice buoy LED lantern

The VP LED is a LED lantern designed to be used in moderate ice conditions. It has a proven record of surviving the crushing pressure and dynamic forces of ice. VP LED is mainly used on plastic ice spars and buoys when a light weight unit is important.

- Marine grade aluminium housing
- Designed to be fully waterproof, can sustain extensive submersion
- Integrates firmly into buoy top and presents a very low profile to lateral forces from ice
- Lantern can be removed for battery replacement
- Visual range from
 2 to 6 NM (Tc = 0,74)
- Standard IALA colours Red, Green, White and Yellow
- Extremely low power consumption, ideal for primary battery operation
- Integrated flasher with day light switch
- Adjustable intensity and range
- Configuration and field maintenance with wireless Sabik Easy Programmer, PDA Programmer or computer
- Integrated 365 day event log
- Optionally integrated GPS synchronization
- Optionally integrated
 GSM Remote monitoring







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Bird spikes Stainless steel as standard. Easy to replace.



Service The lantern forms a waterproof service door to the buoy. The primary battery can be replaced by removing the lantern.



Aluminium body The marine grade aluminium housing with epoxy painting is corrosion resistant and will survive a lot of abuse from ice.

GSM

GSM unit and antenna

for remote monitoring

and control. For more

LightGuard Section.

integrated in the lantern

information please see the



Polycarbonate lens

The low profile optical lens is designed to give minimum exposure to ice forces. Lens is supported by the lantern structure sufficient to protect the unit in arctic conditions.



Additional cable entry Equipped as standard with two cable entries. If a second entry is needed, e.g. for a solar module, a standard M20 cable gland can be fitted.



OFBS The Optical Feedback System (OFBS) enables built-in monitoring of LED degradation over time.



Waterproof The lantern is also protected against humidity from inside the buoy. Should the buoy leak, the lantern is still protected. Pressure vent enables breathing.



Sabik Easy Programmer User friendly and compact wireless two-way programmer.



GPS

GPS unit and antenna integrated in the lantern hat for wireless synchronization and for position monitoring. The integrated GPS antenna is moulded and survives ice pressure.



PDA Programmer Wireless two-way communication using a Windows based PDA with infra red port. Flash code, range and photocell switch level etc. can be set.



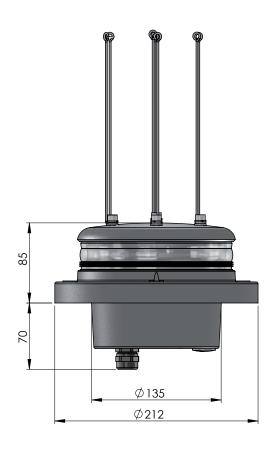
Installation The lantern is integrated with the buoy top for maximum support against lateral forces. Mounting with 4 pcs of M10 bolts.

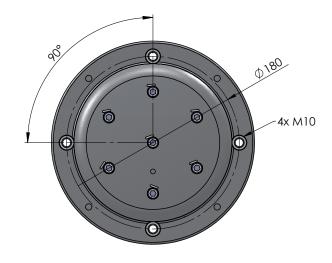


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Technical Specification VP LED





Optical performance

Maximum fixed inte	nsity			
At full power 6 W	120 cd	180 cd	250 cd	100 cd

Main Technical Specification

Lens visual/Mechanical diameter	160 mm
Lens material	UV stabilized Polycarbonate
Light source	Light Emitting Diodes (LEDs)
Vertical divergence (wide lens)	10° @ 50 % (±1°) of peak intensity 20° @ 10 % (±2°) of peak intensity
Unit lifetime	Up to 10 years
Weight	3,2 kg
Temperature range	-40°+60°C
Supply Voltage	10 – 32 VDC
Solar Panel Charger	16 ampere PWM charger
Power consumption	6 watts/tier
Degree of protection	IP 68



Order Overview VP LED

Option matrix

Green

White

OPT 1: Optic	al Feedback System	Integrate	d LED performance measurement
OPT 4: GPS s	ync	Integrate	d GPS sync including GPS antenna
OPT 7: Exter	nal GPS	External O	GPS antenna
OPT 9: Lighte	Guard GSM + GPS	-	d GSM based monitoring including antennas
OPT 10: Ligh	tGuard GSM	Integrate GSM ante	d GSM based monitoring including nna
OPT 11: Con	trol card	Control ca	ard for secondary battery
OPT 12: Aux	card with I/O	Aux card	including I/O ports
OPT 13: Aux	card with RS485 and I/O	Aux card	including RS 485 and I/O port
Shock & Tilt	Sensor	Integrated shock sen	d 3-axis G sensor for tilt and Ising
N = Narrow	(6° @ 50 % of peak intensity)	W = Wide (10	0° @ 50 % of peak intensity)
Red	VP LED1NR	Red	VP LED1WR
Yellow	VP LED1NY	Yellow	VP LED1WY

Green

White

VP LED1WG

VP LED1WW

Product code example: VP LED1NWOPT13

VP LED1NG

VP LED1NW

• VP LED1 is Sabik code for a single tier VP LED

- NW is the code for a Narrow lens in white
- with a selection of option 13 Aux card with RS485 and I/O

Order Overview VP LED B/Y

Wreck marking lantern blue/yellow

VP LED BLUE/YELLOW WRECK MARK	980107
Option matrix	
Option matrix OPT 4: GPS sync	GPS Synchro unit with GPS antenna integrated