



LED 160

Full range lantern for fixed and floating installations

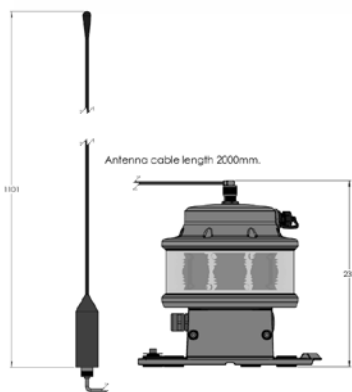
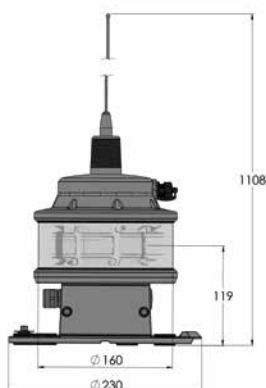
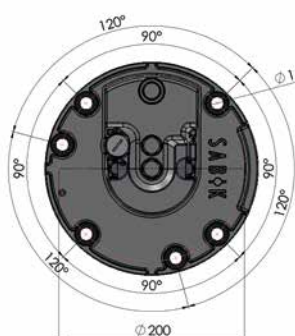
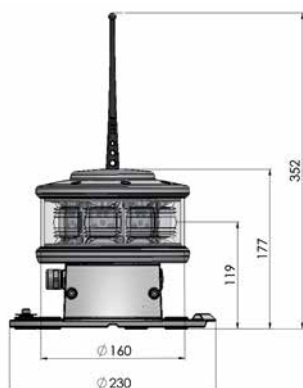
This all-round LED 160 lantern has world-class optical performance with options for buoys and fixed installations. Three different lens options available covering a range from 3 NM up to 12NM (Tc = 0,74)

- Standard IALA colours
red, green, white, yellow and blue
- Best in class optical performance
- New designed rugged injection moulded aluminium housing
- Easy field installation thanks to the integrated junction box with 3 cable entries
- Extremely low power consumption, suitable for solar and battery operation
- Integrated 16A solar panel charger
- Adjustable intensity and range
- The lantern is available in three different versions. LED 160 with Narrow 5° and with Wide 10° vertical divergence, and the LED 160H with a 2,5° vertical divergence
- Programmable with Sabik IR programmer or with Bluetooth® control from up to 50m distance
- Optionally integrated GPS synchronization
- Optionally integrated GSM/GPS remote monitoring
- Available with integrated AIS



Integrated AIS

- Available in two models: Type 1 (FATDMA) and Type 3 (RATDMA)
- AIS transponder integrated in the top part of the lantern
- Integrated GPS antenna and external VHF antenna included in the delivery
- Extremely low power consumption when used as Type 1 <45mW with 1 message/ 3 minutes (about 0,09 Ah/day)
- Support messages: 6 and 21
- Supports up to 10 virtual Aton:s



Product code example: LED-160-NG-9L

- **LED-160-NG** is Sabik code for LED 160 with narrow lens in green
- **9L** is a selection of option 9 integrated GSM/GPS monitoring

Optical performance

Maximum fixed intensity LED 160H

Max power 36 W	4300 cd
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Maximum fixed intensity LED 160N

	1150 cd	1200 cd	1000 cd	1850 cd
Power consumption	13 W	16 W	16 W	16 W

Maximum fixed intensity LED 160W

	550 cd	850 cd	550 cd	1100 cd
Power consumption	12 W	16 W	16 W	16 W

Main Technical Specification

Lens visual/Mechanical diameter	160 mm
Lens material	UV stabilized Acrylic
Light source	High Power Light Emitting Diodes
Vertical divergence	2,5°@50% of peak intensity (FWHM) 5°@50% of peak intensity (FWHM) 10°@50% of peak intensity (FWHM)
Weight	3,3 kg
Temperature range	-40° – +60°C
Supply Voltage	10 – 32 VDC
Solar Panel Charger	16 ampere PWM charger
Power consumption	13W – 16W
Power consumption LED 160H	36 W
Degree of protection	IP 67
Cable length	2 m / 6 m

Order Overview LED 160

Product codes

LED 160H High intensity lantern	LED 160N Lantern with narrow lens designed for fixed structures	LED 160W Lantern with wide lens designed for buoys	Colour
LED-160-HW	LED-160-NW	LED-160-WW	white
	LED-160-NR	LED-160-WR	red
	LED-160-NG	LED-160-WG	green
	LED-160-NY	LED-160-WY	yellow
	LED-160-NB	LED-160-WB	blue

Option matrix

GPS sync	Integrated GPS sync including GPS antenna
OPT 4L	
LightGuard GSM + GPS	Integrated GSM/GPS based monitoring including GSM/GPS antennas
OPT 9L	
Battery control card	Control card for secondary (emergency) battery
OPT 11L	
Automatic Identification System	OPT AIS 1: Lantern with integrated AIS type 1 OPT AIS 3: Lantern with integrated AIS type 3
OPT AIS	