Pharos Marine Automatic Power

BROCHURE

PHALCON-XS

X and S Radar Beacon (RACON)

** ATEX/IECEX version for ZN1 also available*

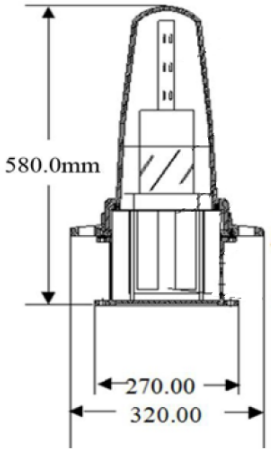
OVERVIEW

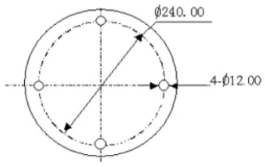
RACONS are important all-weather aids to navigation, which provide radar range and bearing information to ships for safe and efficient navigation 24 hours a day. The Phalcon-XS is energy efficient, compact and lightweight RACON designed for superior performance on Navigation Buoys, CALM, SPM Buoys, Offshore Structures and FPSOs. This model is also available as Phalcon-EX-SS-SX RACON adapted for Zone 1 applications. This allows both X and S bands in an Ex rated unit

PHALCON-XS SA

KEY FEATURES PHALCON RACON

- No pressurization needed
- Extremely effective and reliable
- Frequency agile
- Side lobe suppression (SLS)
- Automatic self test feature
- IALA and IMO compliant
- Proportional scaling
- Harbor blanking
- 26 Morse code character set
- RS232 or RS485 comms port





SPECIFICATONS SAFE AREA VERSION	
Frequency Range	X band: 9300~9500MHz S band: 2900~3100MHz
Frequency Accuracy	X: >200ns <±1MHz Pulse width ≤200ns<±2MHz S:>200ns <±1.5MHz Pulse width ≤200ns<±3.5MHz
Response Code	26 Morse codes
Output Power to Antenna	1.5W
Response Delay	≤0.5μs
Receiver Sensitivity	X band: -50dbm S band: -35dbm
Antenna Gain	X band: 5db S band: 2db
Polarization	X band: Horizontal S band: Horizontal and Vertical
Azimuth Response	360°
Max. Response Rate	10 kHz
Serial Port	RS232 or RS485
Side-Lobe Suppression (SLS)	Advanced (24~28 db)
Input Voltage	DC12V (9~36V)
Average Power Consumption	2.5W, based on traffic condition. Maximum 500mAIdle 9mA
Operation Temperature	-40℃ to +70℃
Ingress Protection	IP 67
Materials	Aluminium Base
Protection	Against inverse polarity and struck by thunder lightning
Dimension（X/S band）	Φ270mm×650mm; Handle Φ360mm
Installing Dimension	4xM10 on 240 PCD
Weight	≤10kg

**All values are subject to change without notice.*

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Pharos Marine Automatic Power
Gray, LA - USA
rleblanc@automaticpower.com
Phone: +1-985-223-8700

Pharos Marine Automatic Power, Ltd.
London, UK
sales@pharosmarine.com
Phone:+44-20-8538-1100

AB Pharos Marine Pte.
Singapore
sales@pharos-api.com
Phone: +65-6747-9325