



MARINE ASSET TRACKER

MAT1 Hardware Specification

For powered vessels with stable power supply eg tugs and support vessels, MAT1 is the recommended option. Ideal for both routine tracking and, with its variable reporting capability, monitoring vessels transiting high risk areas.

The MAT1 system enables the operator of a powered marine asset to monitor the safe passage of their vessel through adverse weather and sea conditions or through high security risk areas which may be affecting trade routes.

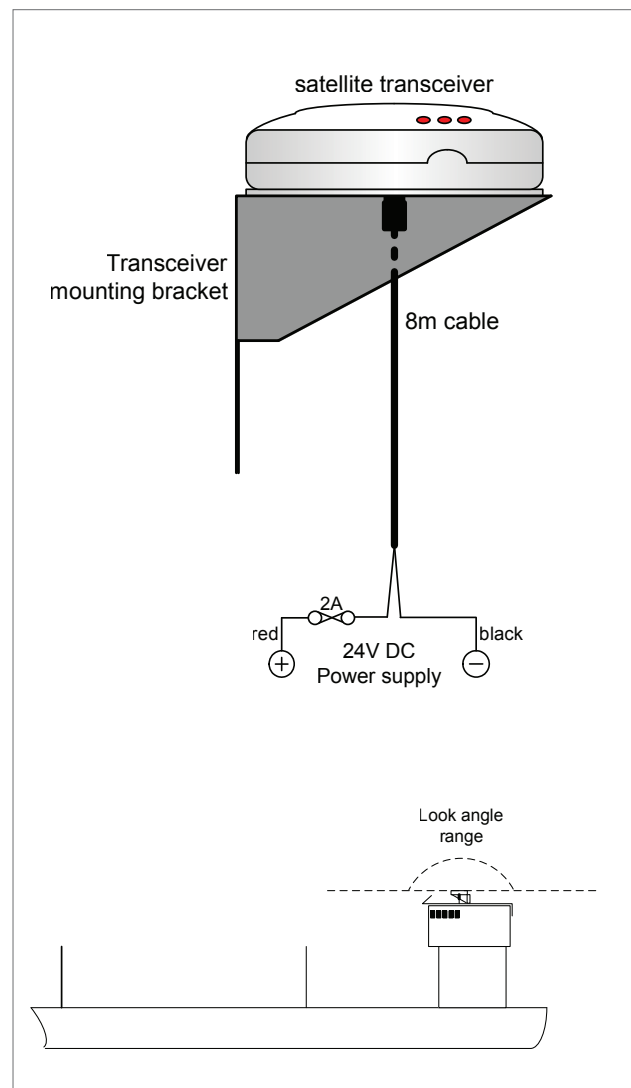
A flexible “pay as you go” service, MAT is designed primarily for use by tug and barge, support vessel and inshore operators.

The MAT1 satellite transceiver is specifically designed for powered vessels which have a 24v DC power supply on board.



Key Benefits

- Can be easily installed by crew
- Supplied with marine grade stainless steel universal mounting bracket
- 8m cable with integral moulded connector
- Automatic ocean region switching



MAT1 TECHNICAL SPECIFICATION

PHYSICAL	
Overall dimensions	Diameter: 160 mm x Height: 47 mm
Weight	600g
Hardware	SkyWave DMR-800D transceiver; marine grade stainless steel mounting bracket with u-bolts, 8m cable with fitted Conxall mating plug

ENVIRONMENTAL	
Operating temperature range	-40° to +70° C
Storage temperature range	-40° to +85° C
Humidity	95% Relative Humidity at 30° C
Vibration	5-20 Hz: 1.92 m ² /s ³ random noise 20-500Hz: -3dB octave random noise
Shock (survival)	Half sine 6ms, 300m/s ²
Transceiver environmental rating	IP67/NEMA-4X

ELECTRICAL	
Input voltage	9VDC to 24 VDC
Power consumption (typ. @ 12Vdc)	Tracking mode (GPS on): +0.9W; Heating active: +1.5W; Transmit: 7.6W
Mating connector	Conxall Mini-Con-X® 6282-8SG-3DC

SATELLITE	
Coverage	Global, five overlapping regions
Frequency range	Rx: 1525.0 to 1559.0 MHz Tx: 1626.5 to 1660.5 MHz
EIRP	9 dBW max
Elevation angle	0 to +90 degrees

GPS	
Frequency	1575.42 MHz
Channels	16 parallel
Acquisition	Cold-start: 34s

CERTIFICATIONS / COMPLIANCE	
Satellite	Inmarsat D+/IsatM2M Type Approved
Regulatory	FCC; RoHS; CE Mark (R&TTE); Anatel: IEC/EN 60945
	Inmarsat D+ Type Approval CEMark