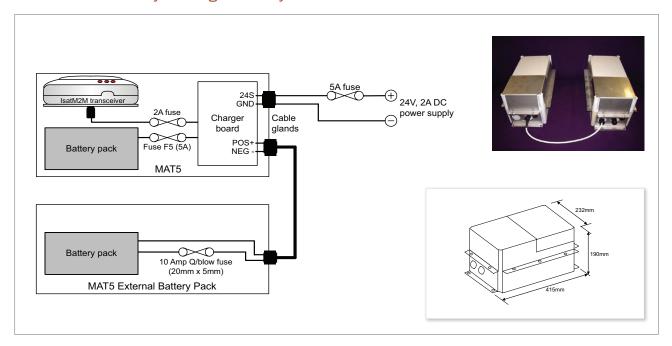




The MAT5 satellite transceiver is ideally suited for the Oil & Gas sector. It has been specifically designed for Rig/Platform Monitoring Management where existing power supply onboard can be connected to the unit to provide a constant power source to the Internal Battery Management system.



The unit requires a stable external DC supply to maintain the battery charge. On disconnection of external power, the unit will operate for approximately 14 days. Operation of the unit is completely automatic, and the only user intervention that should be required after installation is to restore the external power supply in the event of disconnection.

On its default setting, the unit will transmit a position report every 24 hours. However, the variable position reporting function enables the shore-based operator to increase reporting frequency to up to 15 minutes, as required.

Key Benefits

- Robust enclosure manufactured from durable composite materials
- Up to 14 days position reporting on reserve power
- Provides accurate audit trail to mineral management authorities
- Reliable position reporting during extreme weather conditions

MAT5 TECHNICAL SPECIFICATION

PHYSICAL	
Overall dimensions	Length: 415 mm x Width: 232 mm x Height: 190 mm per enclosure
Weight	18kg
External battery pack weight	17kg
Hardware	Composite polystyrene and stainless steel enclosure, SkyWave DMR-800D transceiver, charger board and battery. External battery pack; composite polystyrene and stainless steel enclosure, battery pack.

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
Enclosure environmental rating	IP68

ELECTRICAL	
Power consumption (typ. @ 12Vdc)	Tracking mode (GPS on): 0.9W; Transmit: 7.6W
Battery pack	21 Ah sealed leadacid

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