

Secure Reliable Tracking FMS-SC

The FMS-SC provides low-cost reliable tracking which is ideal for small craft and unmanned marine assets. Fulcrum's purpose-built secure tracking system makes use of the latest satellite communications technology, which when combined with the FMS-SC creates a function rich, cost effective solution.

It is easy to install, with no need for an external power supply. The FMS-SC is powered with 4 x 1.5 V AA rechargeable lithium batteries. It is intrinsically safe and fully waterproof and shockproof (see ratings table on page 2).

Fully integrated with the Fulcrum Vessel Tracking System and the Fulcrum Fisheries Monitoring Centre, the FMS-SC is able to automatically reduce the rate of reporting when the vessel is stationary and increase the rate of reporting when the vessel is operating in a regulated area or other area of interest. Built in alerts and monitoring guarantees constant reporting.

With almost full global coverage using the Globalstar Satellite Network, the FMS-SC is the perfect solution for low budget secure tracking.

- Secure, fully monitored tracking system with alerts
- Fully integrated with Fulcrum tracking solutions
- Receive position reports by email*
- View position reports on global map using web app
- View tracking history
- Download data to PC for further analysis

MAP FUNCTIONS

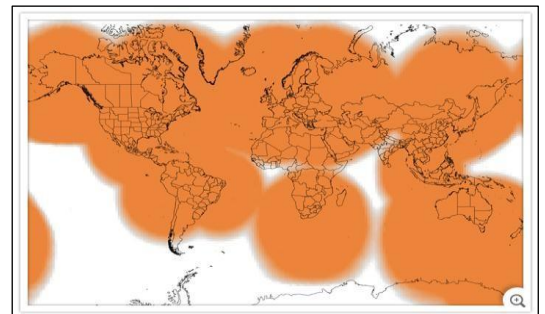
- Interactive map with zoom, click and drag functions
- Distance Measuring tool
- Familiar and easy to use map interface using 'Google Maps'

SYSTEM INFORMATION

- No special software needed
- Access from any web enabled device
- Unlimited user accounts
- Dedicated support team



Globalstar



* Optional – This can be switched off

HARDWARE DETAILS	
Communications Network	Globalstar
Type of Network	Secure Satellite Service
Coverage	Near Global (excluding Poles)
Type of Equipment	Pre-programmed Tracking Software
Position locator	GPS
PHYSICAL FEATURES	
Size	16.9cm x 8.7cm x 2.4cm
Power Source	4 x 1.5V AA lithium batteries, provides 3+yrs battery life (not included)
Environment Rating	IP68
Temperature Range	-30° C to +60° C (Tested for thermal shock)
Waterproof Rating	Watertight (Tested for immersion and humidity resistance)
INSTALLATION	
Installation	No brackets or mounting harness.
Fixings	No harnesses, external power or external antenna
Hardware On/Off	Allows the unit to initiate GPS re-centering
Power Supply	Low Battery Warning
TRACKING FEATURES	
Software	Web based application to view position data
Automated Position Reports	Secure and reliable position reporting at fixed intervals
Email Notifications	Position reports can be sent by email
Reporting Frequency	Up to 12 different reporting times, interval reporting changes automatically if asset moves into or outside of a pre-determined zone
Reduced Message Mode	Reduced satellite messaging if asset remains in same location to reduce airtime costs.
Motion Sensor	Position reporting triggered by movement or vibration sensor
WEB APPLICATION	
Current Position	View and download data for further analysis
Historical Position	View and download historical positions
Speed and Distance	View average speed and distance travelled between reported positions
Support	Online Help Guide and Contact Information for Support
TOOLS	
Measure	Distance tool for measuring distance in NM
Map options	Click and drag to zoom in on map, satellite view

INDUSTRIAL RATINGS

Thermal Shock	SAE-J1455, Paragraph 4.1.3.2, Figure 2C.
Dust-tight (IP6X)	IEC 60529, Edition 2.1, IP6X, First Numeral 6, Conditions 13.4 and 13.6, Category 1.
Humidity	MIL-STD-810F/3, Method 507.4
Immersion	IEC 60529, IPX7, Edition 2.1, Second Character 7, Table 8, Paragraph 14.2.7
Immersion by agreement/ Air bubbles	IEC 60529, Edition 2.1, IPX8, Second Character 8, Paragraph 14.2.8 (Modified)
Power Jetting	*IEC 60529 and DIN 40050-9 to IP69K.
Salt Fog	MIL-STD-810F, Method 509.4 (24/24/24/24).
Vibration	SAE J1455, Paragraph 4.9.4.2, Figures 6, 7 and 8.
Submerge	MIL-STD-810F/3, Method 512.4 (Tailored).
Drop	The test unit was submerged in 5cm of water and cycled 5 times from -40°C to +85°C. MIL-STD-810F/3, Method 516.5, Procedure IV (Transit Drop) (Modified).

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