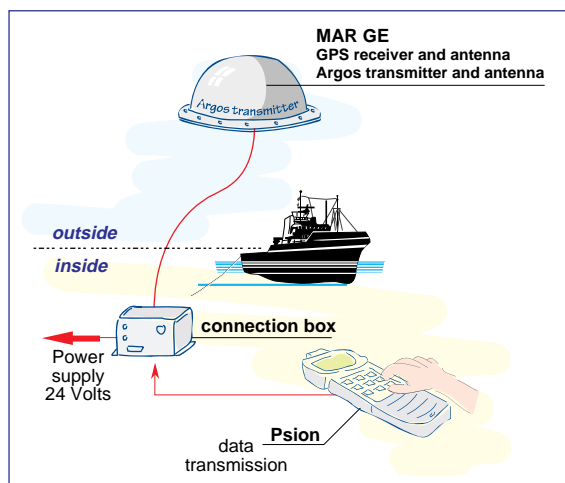


MAR-GE Argos Transmitter



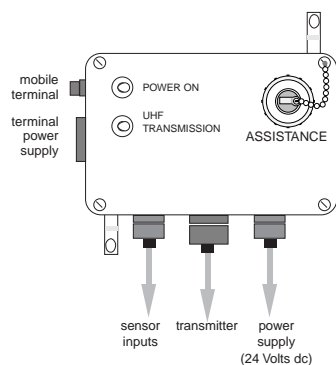
A TRANSMITTER FOR FISHING VESSEL MONITORING

The MAR-GE Argos-GPS transmitter is specially designed for fishing vessel monitoring. It automatically transmits the position, speed, and heading of the fishing vessel to the Argos satellite system. The MAR-GE can also transmit catch reports which include fish species and quantities.

The MAR-GE is robust and the installation is very simple. It can be installed by the crew while the ship is on her way.

- Full global coverage (from north to south pole).
- Positions accurate to within 100 meters using a GPS receiver.
- 24 hourly positions plus intermediate positions given at satellites' passes.
- Vessel speed (in knots) and heading (in degrees) given by the GPS.
- Backup positioning by the Argos satellite system.
- Installed in an hour, immediate activation.
- Robust all-in-one design for marine environment and simple installation.
- No computer required.
- Backup battery in case of main board power failure.

INTERFACE BOX



Compact and convenient interface for fishermen:

- Secured button to request assistance
- Connection to the power supply
- Connection for an optional PSION keyboard
- Connection for optional sensors (winch engine, fish pump, thermometer, etc)
- Light display (transmitter powered, transmission active)

TECHNICAL FEATURES

Size	Dome: 300 mm diameter, 160 mm height (11.8 x 6.3 inch)
Interface Box	124 mm x 80 mm x 56 mm (4.9 x 3.1 x 2.2 inch)
Weight	Dome: 2.4 kg (5.3 US pounds). Total with cables: 7 kg (15 pounds).
Waterproofness	IP66 (splashproof, non submersible)
Operating temperature	-20°C to +50°C
Storage temperature	-20°C to +70°C
Power	External 24VDC power supply (18 to 36VDC tolerance)
Current drain	270 mA average drain (at 140 seconds transmit interval)
GPS receiver	Rockwell Jupiter 12-channel receiver
Argos transmitter	SERPE-IESM PTT07 certified transmitter
Argos message	Length: 160 bits, standard 140-second interval
Output frequency	401.650 MHz
Output power	33 dBm (2 watts)
GPS fix interval	MAR-GE transmits GPS fixes obtained at 30 or 60-minute intervals (factory preset).
GPS speed and heading	MAR-GE transmits the hourly speed and the instant heading (at time of the Argos satellite pass).
Stop in port	MAR-GE detects a stop in port and switches in a save mode until the vessel moves again.
Beeper for special events	Beeper activates in wheelhouse when the main power supply is off, or when the request for assistance button is pushed.
Logical sensor input	One logical status (such as pump active or non active) can be transmitted at every hour.
Integrated memory recorder	MAR-GE stores the past hourly positions, speed and heading.

Manufactured in France by:

SERPE-IESM

Distributed worldwide by:

CLS, Collecte Localisation Satellites

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