Thrane & Thrane

SAILOR INMARSAT-C GMDSS SYSTEM

A Living Legend of Global Safety

What do you get if you combine the SAILOR TT-3020C GMDSS transceiver with the SAILOR TT-3005M antenna? A true workhorse operating on an impressively proven technology that has been the preferred choice of maritime safety communication for more than a decade.

A Strong Combination

The SAILOR Inmarsat-C GMDSS System from Thrane & Thrane rests on a solid combination of two highly acclaimed and reliable products that roams the seas and is the living legend of global safety.

The SAILOR TT-3020C Inmarsat-C GMDSS transceiver is your ultimate choice for global marine safety communication. Complying with the latest SOLAS/GMDSS requirements, the system includes World-wide marine distress functions and thus ensuring that rescue activities can be initiated in a fast and secure way. It also enables users to send and receive all kinds of written messages, including Enhanced Group Call (EGC) such as SafetyNET and FleetNet.

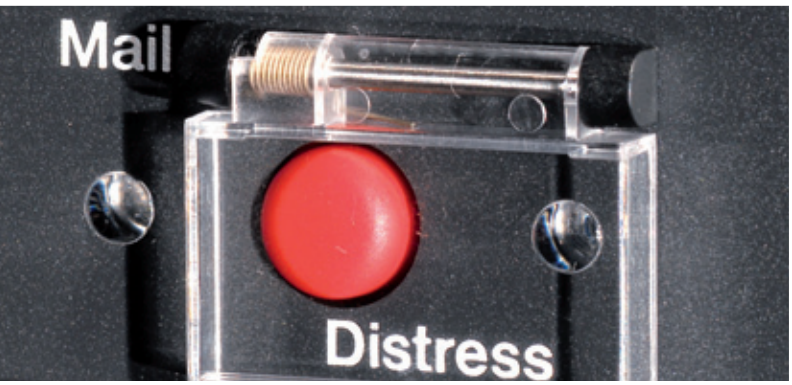
The SAILOR TT-3020C GMDSS transceiver supports all Inmarsat-C communication modes, including e-mail, TELEX, X.25 and mobile to land SMS and fax services.

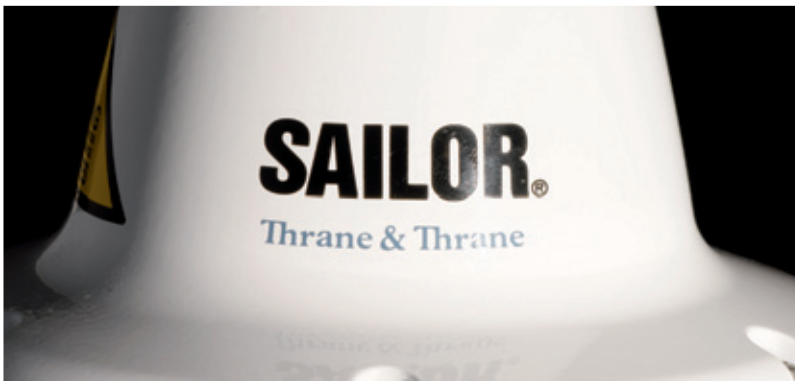
The SAILOR TT-3005M antenna is the smallest maritime Inmarsat-C antenna in the world, and you are ensured trouble free operation down to -15° of elevation. The SAILOR TT-3005M is fully sealed and designed for the most extreme weather conditions at sea.

World-class Service

The Thrane & Thrane On Board Service Center network stretches around the globe. Carefully selected and trained distributors, dealers and service centers are available for instant support and service in harbors all over the world.

SAILOR®





Technical Specifications

General specifications TT-3020C Transceiver

Meets or exceeds current and proposed Inmarsat maritime specifications (CN114)

Approvals and compliances:	Inmarsat: IT-04-061-01. MED Module B: QQ-MED-51/03-01 (QinetiQ). FCC: Title 47, Part 25, Section 25.216
Power source:	10-32 V DC floating
Power consumption	Rx: 4.8W Tx: 81W (incl. GPS module)
Power output:	Floating 9VDC/400mA output for data terminal equipment
GPS module (optional):	12-channel GPS tamper proof pc-board, 1 sec update rate, 15 m RMS accuracy (100m with S/A), 0.2m, RMS velocity accuracy
Ambient temperature:	-25°C to 55°C (operating), -40°C to 80°C (storage)

Communication

Data rate:	600 bit/sec
Transmission length:	Tx: Max 32 Kbytes Rx: >32 Kbytes (storage)
Modulation:	1200 symbols/sec. BPSK
Data reporting:	Standard 20 or 32 bytes short burst packages (for tracking and monitoring applications)
Memory: Solid-State storage:	512 Kbytes Flash and 256 Kbytes SRAM

Interfaces

Antenna interface:	Standard 50 Ω female TNC connector
Data terminal equipment interface:	Serial RS232. E110-38.400 Baud IA-5 code, DB-25F connector
Printer interface:	Standard parallel IEEE 1284 (centronics), DB9F connector.
Data & GPS I/O:	Serial EIA-422-A optically isolated input (NMEA 0183 protocol), DB15F
Parallel I/O:	RE-410 4-bit open collector input/output and 2-bit input
ArcNet Interface:	Token based, twisted pair, 156 kbit

Dimensions

Height:	50 mm (2.0")
Width:	180 mm (7.1")
Depth:	165 mm (6.5")
Weight:	1.3 kg (2.9 lbs)

General specifications TT-3005M Antenna

Inmarsat-C/GPS omni-directional antenna. RHC polarized. Meets or exceeds current and proposed Inmarsat maritime specifications.

Elevation angle:	+90° to -15°
Transmit frequencies:	1626.5 – 1660.5 MHz
Receive frequencies:	Inmarsat C: 1525.0 – 1559.0 MHz. GPS: 1575.42 MHz
Output power, Tx:	EIRP 14 dBW at 5° elevation
Channel spacing:	1.25 / 2.5 / 5 KHz
Solar radiation:	1200W/m2 max. flux density
Precipitation:	Up to 100mm/hour, droplet size 0.5 to 4.5 mm. Fully sealed approved for maritime installations.
Wind:	Up to 200 km/hour
Ambient temperature:	-35°C to 55°C (operating). -40°C to 80°C (storage)
Antenna interface:	Standard 50 Ω female TNC connector
Antenna cable:	5,10,20,30,40,50,60, and 70 meter coax available
Power supply:	Supplied through antenna cable

Dimensions

Weight:	0.9 kg (2.0 lbs)
Height (incl. mast mount):	178 mm (7.0")
Diameter (max):	122 mm (4.8")

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