



SMART
RADIO
TECH

Exclusive supplier
of Aeromarine SRT products



BEACON TESTER PRO

Powerful and future-ready tester for all types
of Cospas-Sarsat beacons and AIS-based safety devices

The **Beacon Tester Pro** is designed for testing emergency beacons from all manufacturers.

It covers testing of all Cospas-Sarsat and AIS-based devices – and more.



This tester is intended for carrying out periodical tests, post-installation checks, annual surveys, and shore-based maintenance.

All types of equipment are verified in accordance with IMO requirements, including:

IMO Circulars MSC.1/Circ.1039/Rev.1 and MSC.1/Circ.1040/Rev.2

IMO Circular MSC.1/Circ.1252

Using this tool, a surveyor can thoroughly test any Cospas-Sarsat beacon or AIS-SART and easily generate a test report fully compliant with the above IMO documents. Annual surveys and maintenance are performed professionally, efficiently, and with confidence.

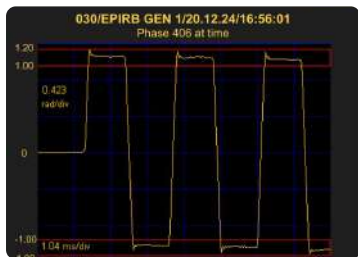
Deep, Professional Testing and Analysis

The BT Pro features a triple integrated receiver, enabling simultaneous and independent signal reception of three EPIRB channels — 406 MHz, 121.5 MHz, and AIS.

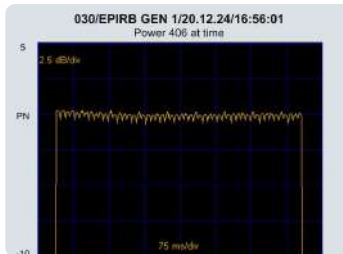
For deeper insight, test results can also be visualized in the graphs:

- Phase Deviation vs Time
- Power vs Time
- 406 MHz Signal Spectrum

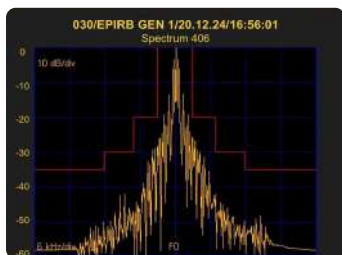
Together these graphs deliver a clear insight into the beacon's transmission quality and full compliance with Cospas-Sarsat standards:



Phase Deviation vs Time – shows the signal phase stability to ensure correct modulation and error-free decoding.



Power vs Time – displays the transmitter power level throughout the burst to confirm consistent and compliant output.



406 MHz Signal Spectrum – visualises the signal purity and frequency accuracy within Cospas-Sarsat requirements.

Design that Delivers Comfort and Reliability

Designed for maximum usability in real survey conditions, the tester features a modern graphical interface, a customisable layout with light/dark themes, and intuitive pictograms for quick navigation.

The large TFT display allows all relevant data — measurements, signal parameters, and settings — to be viewed at a glance, without excessive scrolling. Whether you are testing legacy EPIRBs, AIS EPIRBs, RLS-enabled beacons, ULBs, AIS MOB devices, VDR EPIRBs, AIS-SARTs, or Second Generation Beacons (SGBs), the Beacon Tester Pro decodes the signal, measures all required parameters, and displays the test results in detail on a large colour display.

Built to perform in harsh environments, the tester is housed in a rugged IP65-rated enclosure and supplied in a watertight, crushproof IP68 carry case — ideal for travel and onboard use.

Its ergonomic design is further enhanced by a 22-button dome keypad, convenient even for operation while wearing gloves.

Flexible connection to software via USB or Bluetooth further enhances the tester's usability.



SPECIFICATIONS

Beacon Tester Pro performs measurement and analysis of all COSPAS-SARSAT radio beacons and AIS-based safety devices in line with the IMO Circulars MSC.1/Circ.1039/Rev.1 and 1040/Rev.2

406 MHz First Generation Beacon

Measure all Cospas-Sarsat Frequency Channels	✓
15 HEX ID	✓
Full HEX ID	✓
Decode Message - EPIRB & PLB	✓
Frequency	Leaving Factory ± 100 Hz Long Term ± 1 ppm/year
Power Output	± 0.5 dB during cable measurements
CW Preamble Time	± 0.8 ms
Total Transmission Time	± 0.8 ms
Phase Deviation (positive & negative)	± 0.05 rad

Graphic Measurement

406 Spectrum Mask Graphic Data	✓
406 Output Power During Burst Graphic Data	✓
406 Phase Modulation Graphic Data	✓



121.5 MHz Measurements

Frequency	Leaving Factory ± 100 Hz Long Term ± 1 ppm/year
Peak Power Output	± 0.5 dB during cable measurements
Sweep Direction	✓
Audio Frequency (Upper & Lower)	± 50 Hz
Audio Sweep Range	± 100 Hz

AIS Channel Measurements

Decode Message - Msg1, Msg14	✓
Frequency	Leaving Factory ± 100 Hz Long Term ± 1 ppm/year
Power Output	± 0.5 dB during cable measurements

406 MHz Second Generation Beacon

Decode Message - EPIRB & PLB	✓
Nominal Frequency	Leaving Factory ± 100 Hz Long Term ± 1 ppm/year
Power Output	± 0.5 dB during cable measurements
Total Transmission Time	± 0.8 ms

Distinctive Features:

- ✔ Triple receiver for simultaneous three-channel testing
- ✔ Wide-range test scope, SGB ready
- ✔ Viewing parameters in graphs
- ✔ Large colour TFT display
- ✔ Rugged design, IP65 enclosure, IP68 carry case
- ✔ Dual interface connection to software (USB/Bluetooth)



COMPLETE SET

The BT Pro is supplied in an IP68 plastic case, in the set with an antenna of adjustable length, USB cable and power adapter.



USB power adapter



USB A - USB C cable



Telescopic antenna



Crushproof & watertight case



Beacon Tester Pro
Main unit

Professional Software Support for Beacon Tester Pro

The GMDSS Multi Software expands the functionality of Beacon Tester Pro, providing a powerful environment for managing test results — quickly and efficiently.

» Just download test data and you're able to analyze measurements, view graphs, and generate IMO-compliant reports.

The measurement results are seamlessly transferred from the tester to the PC software via USB or Bluetooth, depending on your workflow. The application is compatible with all major operating systems — Windows, macOS, Android, and iOS — allowing you to work comfortably on a computer, laptop, tablet, or smartphone.

The graphs generated by the tester (Phase deviation vs Time, Power vs Time and 406 MHz Signal Spectrum) are delivered alongside the measurements, instantly viewable on your screen and automatically embedded into reports for clear and visual documentation.



Cross-platform
access



Cloud
synchronization



Multilingual
interface



All test results in the software's database are organized by vessel name or MMSI code, giving you a clear overview of survey history and enabling quick comparisons over time. Convenient search filters (by date, MMSI, equipment type, etc) make navigation through past surveys fast and intuitive.

Reports can be fully customized with your company's branding. Upload your logo and contact details once, and the software will apply them to future reports using one of the available header templates.

The software also monitors the calibration status of your tester and automatically includes this information in every report — ensuring compliance with the requirements of classification societies.

All data can be backed up and synchronized via the cloud, providing secure access from multiple workstations. And with a multilingual interface, the software is accessible to professionals around the world.

AEROMARINE SRT
Smart Radio Technologies

Test Results

Vessels

Download Data

Testers

Profile

Remote control

GMDSS Test Equipment

Testers for Marine Radios, EPIRBs, SARTs and AIS

Test Results

Database of all saved measurements during radio surveys

Search

☐	PID#	Survey Date	Equipment	Channels	MMSI Code	
☐	16	Jun 10, 2025	MF/HF Radio	DSC	262377830	details >>
☐	15	Jun 10, 2025	MF/HF Radio	DSC	262377830	details >>
☐	14	Jun 10, 2025	MF/HF Radio	DSC	262377830	details >>
☐	13	Jun 10, 2025	VHF Radio	DSC	262377830	details >>
☐	12	Jun 10, 2025	EPIRB	406, 121	262377830	details >>
☐	11	Jun 10, 2025	EPIRB	406, 121	262377830	details >>
☐	10	Jun 10, 2025	EPIRB	406, 121	262377830	details >>
☐	9	May 28, 2025	MF/HF Radio	DSC	974000000	details >>

ABOUT US

SRT Group unites three companies with a shared purpose: to deliver the most reliable and advanced GMDSS and AIS test solutions worldwide.

Aeromarine SRT Ltd (Ukraine) is the manufacturing and R&D center behind all our testers. With 25 years of specialization in Cospas-Sarsat technologies, the company combines proven engineering with modern innovation, ensuring high-performance and user-focused products.



Watch how Aeromarine SRT testers are produced

Smart Radio Tech d.o.o. (Serbia) is the exclusive global supplier of Aeromarine SRT equipment. It handles all sales, marketing, and logistics worldwide.

Smart Radio Tech Srl (Romania) is the official branch responsible for supplying Aeromarine SRT products within the European Union.

Today, SRT Group stands as the only company worldwide dedicated exclusively to the development, production, distribution, and support of GMDSS and AIS test equipment — combining specialization with global reach.

The “three-easy” principle of our testers:

- ✓ **Easy to carry**
- ✓ **Easy to use**
- ✓ **Easy to process**

Our mission

We are committed to enhancing maritime safety by developing reliable, user-focused test equipment for marine radio surveys.

The reliability and high performance of our equipment are confirmed by users who return to us time and again — a testament to the trust we’ve earned. To meet and exceed their expectations, we continually expand our testers’ functionality and develop new features that reflect the evolving needs of the industry.

Precise. Powerful. Future-proof.

Engineered for precision and built for the field, Beacon Tester Pro sets a new benchmark in beacon testing — reliable today, ready for tomorrow.



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