



GMDSS Tester  
**Finally**  
take it in your hand

Complies with IMO. IACS Approved.

[www.aeromarinesrt.com](http://www.aeromarinesrt.com)



# GMDSS Tester MRTS-7M

## DESCRIPTION

**Marine Radio Test Set MRTS-7M** is intended to carry out the periodical operation, maintenance and servicing tests of MF/HF/VHF Radios with DSC and NAVTEX receivers in accordance with IMO A.948 (23) or A.997(25), A.1020(26) resolutions.

The **MRTS-7M** is the device capable to provide accurate, independent operation test of the following equipment:

- VHF receiver-transmitters
- VHF receiver-transmitters with DSC
- MF/HF radiotelephone equipment
- MF/HF radiotelephone equipment with DSC
- NAVTEX equipment

The GMDSS Tester MRTS-7M is specified equipment for radio inspectors performing mandatory, periodical surveys of ship-borne communication equipment.

The Marine Radio Test System MRTS-7M allows ensuring the GMDSS equipment meets the appropriate performance requirements.

The GMDSS Tester MRTS-7M can be easily connected to any PC or laptop.

## FEATURES

MRTS-7M supports testing of the following equipment:

### VHF receiver-transmitters:

- operation tests by means of transmission/reception of FM modulated signal on any simplex VHF channel including 6, 13 and 16.
- measurement of frequency and frequency deviation;
- measurement of output and reflected power;

### VHF receiver-transmitters with DSC:

- test of correct transmission/reception of DSC messages by means of transmission/reception of selective Test call to particular MMSI number and

Distress (to all ships) messages;

- check the MMSI code programmed in equipment without any broadcast emission;
- measurement of frequency and frequency deviation;
- measurement of output and reflected power;

### MF/HF radiotelephone equipment:

- operation tests by means transmission/reception of modulated signal;
- measurement of frequency in range (1600 – 30000) kHz;
- measurement of output power;

### MF/HF radiotelephone equipment with DSC:

- test of correct transmission/reception of DSC messages by means of transmission/reception of selective Test call to particular MMSI number and Distress (to all ships) messages on any of 6 distress channels;
- check the MMSI code programmed in equipment;
- measurement of frequency and frequency deviation;
- measurement of output power;

### NAVTEX equipment:

- operation tests by means of sending one of two available test messages on any of three frequencies: 490 kHz, 518 kHz or 4209.5 kHz.

### VHF equipment of duplex radiotelephony with airplanes including operating on 121.5MHz and 123,1MHz:

- operation tests by transmission/reception of modulated signal;
- frequency and power level measurements;

### VHF radiotelephone stations operating in range (300 - 337) MHz (intended for river-sea vessels):

- operation tests by transmission/reception of modulated signal
- frequency and power level measurements.

**MRTS-7M can be used as:**

**RF Signal Generator**

- device allows to generate the RF signals in range of 0,5 – 30 MHz;

**Frequency meter**

- device allows to measure the signal frequency in range 0,5 – 30 MHz and 156 – 163 MHz.

**The tester is capable to transmit and receive the signal by:**

- broadcast antenna
- direct connection by means of attenuator and cables

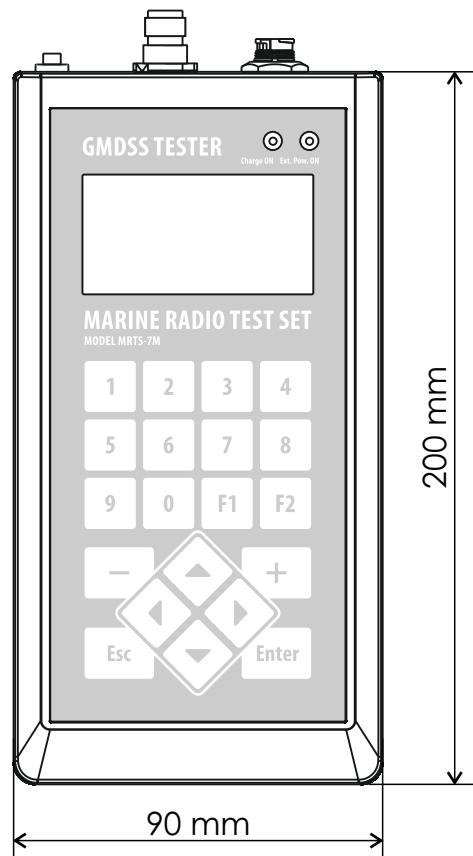
**MRTS-7M has capability to:**

- generate the RF signals in range of 0,5 – 30 MHz;
- measure the signals frequency and level in range 0,5 – 30 MHz and 156 – 163 MHz

**COMPLETE SET**

1. MF/HF/VHF Marine Radio Test System (MRTS – 7M)
2. Power supply unit
3. VHF-telescopic antenna
4. MF/HF-wire antenna
5. VHF Pow-VSWR meter (50W)
6. MF/HF Attenuator 250W (**Optional**)
7. USB-A – USB-B cable
8. User Manual
9. Calibration Certificate
10. Package
11. NMEA IN/OUT cable (DB9 fem – open wire 1.5m) (**Optional**)

**Weight: 0,4 kg**



	<p><b>AEROMARINE SRT</b> SAFETY SOLUTIONS</p>	<p>Quality Management System REGISTERED TO ISO 9001:2012</p>
<p><b>AEROMARINE SRT Ltd.</b> Our postal address: 54010, Suite 114, 5, Buznika str., Mykolaiv, Ukraine Tel: +38 0512 454045; Fax: +38 0512 584199 English speaking support: +38 0512 454045</p>		