



MF/HF/VHF DSC MARINE RADIO TEST SYSTEM MRTS-7

MF/HF/VHF DSC Marine Radio Test System (MRTS-7) is designed to check the MF/HF/VHF stations with DSC by means of SENDING/RECEIVING of DSC messages on all allowed frequencies. Besides of that Testsystem can be used as frequencymeter and HF oscillator and carry out the efficiency tests of Navtex equipment.

FEATURES

Send either GMDSS distress signal or selective test call to a particular MMSI on any of 6 distress frequencies on MF/HF as well VHF.

Transmit/receive DSC signals on the international calling frequencies 2177,0kHz and 2189,5 kHz

Receive/check DSC signals on any of 6 distress frequencies.

Measures the deviation of received signal on VHF.

Measures and displays the mark/space frequencies of the received DSC signal.

Measures and displays the transmitted and reflected power of received signal on VHF.

Carry out efficiency test of NAVTEXT equipment

All received and decoded DSC messages and all measured results can be viewed on LCD screen for later printout either directly to PC.

Tester is power supplied by external 12-28V dc source. Also tester can be connected to 100-240VAC/50-60Hz by adaptor.

The MF/HF/VHF DSC Marine Radio Test System MRTS-7 (further tester) is intended to carry out the efficiency, maintenance and servicing tests of the following equipment (under IMO A.948(23) resolution):

- VHF receiver-transmitters:
 - efficiency tests on 6, 13 and 16 channels;
 - test of frequency and output power;
- VHF receiver-transmitters with DSC:
 - test confirming the correctness of the MMSI code programmed in equipment without any broadcast emission;
 - test of correct transmission/reception of DSC messages by means of transmission/ reception of test message;
- MF/HF radiotelephone equipment:
 - test of frequency tolerance in range (1600 30000) kHz;
 - efficiency tests by means of transmission line quality and transmitter output power measurements;
 - efficiency test in all frequency range (1600 30000) kHz;
- MF/HF DSC controllers:
 - test confirming the correctness of the MMSI code programmed in equipment;
 - test of presence of emergency signal on MF/HF with DSC by means of transmission of DSC Distress message;
- MF/HF receivers monitoring the DSC:
 - efficiency test by means of transmission of test call;

- NAVTEX equipment:
 - efficiency test by means of transmission of test message;
- VHF duplex radiotelephony equipment:
 - efficiency tests on 6, 13 and 16 channels;
 - frequency tolerance test and frequency deviation estimation;
- VHF equipment of duplex radiotelephony with airplanes including operating on 121.5MHz and 123,1MHz:
 - frequency and power measurements;
- carried radiophone stations operating in range (300,025-300,225) MHz (intended for river-sea vessels):
 - frequency and power measurements.

The tester is capable to receive the MF/HF/VHF radios emission working in normal mode without any connections by means of telescopic antenna, and transmit the DSC message both by means of telescopic antenna and direct HF cable connection to DSC receiver input.

Besides the tester allows to:

- generate the HF signals in range of 0,5 200MHz;
- measure the signals frequency in range 0,1 640MHz.

COMPLETE SET

- Marine Radio Test System (MRTS – 7)
- Power supply unit
- RF Cable
- Antenna
- Computer cable, software
- Technical description and user manual
- Package

Available from



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