

Futronic MKI GMDSS test box



FUTRONIC GMDSS-AIS TEST BOX

The Futronic GMDSS-AIS test box enables you to test AIS transponders and GMDSS radio equipment such as HF/MF/VHF DSC radios, EPIRBs, GPIRBS and NAVTEX receivers.

Test results are presented on the display and stored in the memory accordingly with the facility of transferring them to a PC or printer.

Testing of GMDSS radio equipment

- Receive and test DSC calls on any of the six MF/HF DSC frequencies and on VHF channel 70.
- Receive and test DSC calls on the international calling frequencies 2177.0 and 2189.5 kHz used for commercial radio traffic.
- Measure the mark/space frequency of received DSC calls on MF/HF.
- Measure the frequency deviation on VHF channel 6.
- Receive and test ATIS on VHF channel 6 and channel 15.
- Measure the transmitted and reflected power on any VHF channel.
- Simulate all-ships DSC calls and selective DSC calls on any of the six MF/HF DSC frequencies and on VHF channel 70.
- Simulate DSC calls on the international calling frequencies 2177.0 and 2189.5 kHz used for commercial radio traffic.
- Receive and check the radio signal and ID from EPIRBs and GPIRBS on 406.025 (406.028) MHz and 121.5 MHz.
- Transmit test messages to NAVTEX receivers on 490 kHz, 518 kHz or 4209.5 kHz.
- Measure frequencies in the range of 400 kHz to 475 MHz.

Testing of AIS transponders

- Poll, receive and check data from AIS transponders.
- Measure the frequency of AIS channel 1, AIS channel 2 and VHF channel 70.
- Measure the transmitted and reflected power on AIS channels and VHF channel 70.
- Simulate AIS data transmissions, such as ship's name, position, length, course, speed, power and beam.
- Simulate a ship transmitting AIS data from four subsequent positions.
- Simulate NMEA data transmissions.

SPECIFICATIONS

Accuracy of Frequency Measurements

at 400 kHz - 475 MHz in general:
+/- 0.2 ppm +/- 1 digit

at VHF channel 70, AIS channels and EPIRB/GPIRB
channels in particular:
+/- 0.2 kHz

Accuracy of Frequency Deviation Measurements

at 1-6 kHz measurements in general:
+/- 0.5 kHz

at 5 kHz measurements in particular:
+/- 0.1 kHz

Accuracy of Power Measurements

+/- 0.5 W at 0-3 W output power
+/- 2 W at 5-30 W output power

Environmental Data

Ambient temperature:
0 to +50 °C

Storage temperature:
-30 to +60 °C

Dimensions

260 x 103 x 258 mm (LxHxW)

Weight

4,2 Kg

Power supply

- 100-230 VAC, 50-60 Hz
- Facility for external 15-28 VDC power supply
- Built-in battery for 2 hours of operation
without power supply

Calibration Schedule

First re-calibration after one year,
then every second year.

Accessories:

- 1 pcs Power adaptor 100-240 VAC / 15VDC
- 1 - Cable for external DC power
- 1 - RS232 cable for printer or PC
- 1 - 1 kHz AF generator
- 1 - AIS signal combiner / dummy load
- 1 - Telescopic antenna for VHF/AIS
- 1 - Wire antenna for MF/HF and NAVTEX
- 1 - Coax cable, 25 cm, with BNC
- 2 - Coax cable, 168 cm, with BNC
- 1 - Coax cable, 500 cm, with BNC
- 2 - UHF plug to BNC socket adapter
- 1 - UHF socket to BNC socket adapter
- 1 - BNC female to BNC female adapter
- 1 - User's Manual in English
- 1 - Calibration Certificate

DSC/AIS Message Composer PC Software
can be downloaded from our website.

Manufacturing, Sales and Service:

DANPHONE A/S
Klokkestoerbervej, 4
DK-9490 Pandrup, Denmark
Tel: +45 96 44 44 44
E-mail: danphone@danphone.com
www.danphone.com