

# GMDSS VHF Tester

**GMDSS VHF Tester is designed for check of VHF radios of any manufacturer in accordance with SOLAS -74/88 requirements.**

GMDSS VHF Tester allows to check all necessary parameters of VHF two-way phone equipment, GMDSS VHF equipment with DSC, and MF/HF equipment with coast servicing in accordance with rules of Russian Maritime Register of Shipping.

The VHF Tester is small and handheld.



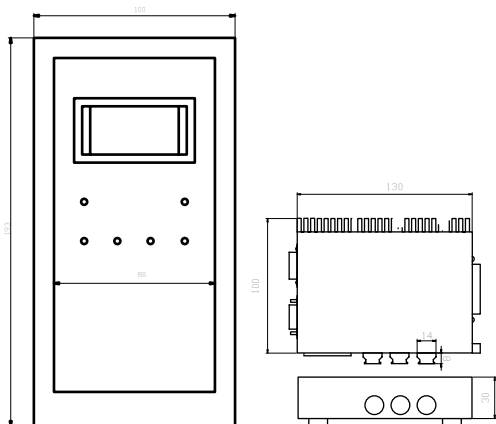
With the help of GMDSS VHF Tester you can provide the full check of the VHF radios, MF/HF radios on comply with specification.

Tester has sound alarm of DSC transmitting/receiving. Also it provides the full self-testing with indication on LCD.

Tester can be connected to PC.



Main unit with power supply unit



Tester has two power supply modes:

- Built-in 6V battery;
- 24 V onboard power supply circuit (with usage of the supply unit)

#### Main features:

- tester provides to make measurements in auto mode
- tester provides to control and indicate the voltage of power supply with  $\pm 5\%$  accuracy on LCD
- operational life of the tester without battery recharging is less than 7 hours
- current drain of the tester supplied by built-in battery in standby mode 85mA, in measure mode - 200mA
- current drain of the tester supplied by onboard circuit in standby mode - 95mA, in measure mode - 210mA
- built-in battery can be charged with help of power supply unit. Maximum time of charging is less than 16 hours
- tester allows to save in memory 10 results of measurements. Last measurements made in auto mode or hand-picked parameters are saved in memory

#### Main specification:

##### During the test of VHF radios with frequency modulation tester allows to:

- check the efficiency of VHF radio with frequency modulation ;
- measure the frequency of transmitter in range of 155-162 MHz ;
- indicate the level of emitted power;
- control deviation level;
- estimate the radio's receiver sensitivity;

##### During the test of GMDSS VHF equipment transmitter with DSC tester allows to:

- estimate the reliability of formation and transmitting of DSC messages;
- indicate the power;
- measure the frequency 156,525 MHz;

##### During the test of GMDSS VHF equipment receiver with DSC tester allows to:

- send to receiver three kinds of DSC messages:

One time with "Distress" ;

Five times with "Distress";

Individual call "IND.CALL" ;

- estimate the radio's receiver sensitivity;

##### During the test of VHF radios with amplitude modulation 121-123,5MHz tester allows to:

- measure the carrier frequency of transmitter;
- provide the acoustic control of radio operation;

##### During the test of GMDSS MH/HF equipment transmitter tester allows to:

- measure the frequency at range 1.6-30 MHz;

#### The tester's full set includes:

1. Tester
2. VHF Antenna for measurements, height is 520 mm.
3. The set of cables and connectors.
4. Power supply unit or charging unit. (Optional)
5. Artificial antenna - 50ohm. (Optional)
6. Manual

The tester is designed for operation in shielded rooms at temperature range +5C up to +45C with relative humidity of air up to 95%.

Note that as the tester operates through broadcast you have to choose free frequencies.

Available from



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