



NAVTEX TRANSMITTER

1kW, 2kW, 3kW & 5kW Transmitters

Safe and reliable broadcast of maritime safety information

FEATURING FAIL-SAFE TRANSMISSION OF NAVTEX MESSAGES

The Futronic NAVTEX Transmitter T507M-D MKII is designed to assure the transmission of all NAVTEX messages independent of network stability.

The Danphone NAVTEX Transmitter is developed and produced by Danphone. The NAVTEX transmitters are designed for rack mount and transmit NAVTEX messages in any local language on 490 kHz and 518 kHz.

The 600x600x1800 mm cabinet shown below contains all the equipment needed for a duplicated NAVTEX system with two transmitters and two power supply units.

Danphone's Network Management System enables monitoring and configuration of each individual transmitter.

MAIN FEATURES

- IP interface (IEEE 802,3)
- RF Output Power 50-1000 W into 50 Ohm
- Frequency 490 kHz / 518 kHz
- Frequency Stability +/-0,5 Hz
- MTBF > 50,000 hours
- NAVDAT
- Optional 2kW or 3kW output power

Comply with:

ITU-R M.540-2, ITU-R M.625-3

IMO Revised NAVTEX Manual 2013,

EN 60950, EN 60215, EN 55022, EN 61000-3-2, EN 61000-3-3, EN 61000-4-2, EN 61000-4-2/-3/-4/-5/-6/-11, EN 61000-6-2, EN 61000-6-4, ETS 300 067



Danphone's Network Management System



NAVTEX cabinet

SPECIFICATIONS

Power supply:

1kW: 85-264V 50-60 Hz single phase
2kW: 85-400V 50-60 Hz 3 phase
3kW: 85-400V 50-60 Hz 3 phase
5kW: 85-400V 50-60 Hz 3 phase

Power consumption:

1kW: Max 1.5 kW (6.5A at 230V)
2kW: Max 2,6 kW
3kW: Max 4 kW
5kW: Max 6,5 kW

Dimensions:

1kW: 490 x 180 x 380 mm (19"4HU)
2kW: 490 x 265 x 440 (19"HU)
3kW: 490 x 265 x 440 (19"HU)
5kW: 490 x 265 x 440 (19"HU)

Cooling System: Forced air-cooling

Amb. Temperature: -20 to 55 °C

Spurious Radiation: Less than -53dB

Modulation: 304 HF1 BCN (FSK +/- 85 Hz 100 Baud)

Weight:

1kW: 10 kg
2kW: 12,8 kg
3kW: 13,5 kg
5kW: 14,5 kg

Warranty: The NAVTEX Transmitter comes with a two-year warranty.

NAVTEX Transmitter Station

The NAVTEX transmitter station consists of three main units:

- Remote controlled NAVTEX transmitter
- Power supply for the transmitter
- Automatic Antenna Tuner

The transmitter ensures messages can be sent even if a reverse power fault is observed. In case of too high reverse power, the forward power will be automatically reduced to protect the transmitter.

In case of a sudden short at the antenna, built-in circuitry will protect the transmitter against damage by immediately shutting down the transmission. During standby, the antenna is isolated from the transmitter and grounded.

1-5kW Automatic Tuning Unit



The output from the transmitter is connected to an antenna tuner in order to match the antenna impedance to the transmitter's 50-Ohm output impedance.

VSWR 1,1:1

MTBF >50,000 hours

Amb. Temperature -20 to 55 °C

Weight 29 kg

Dimensions

820 x 660 x 310 mm

Tuning area

Serial impedances between:

Real part $2.5 < R < 30$ ohm

Imaginary part: $-400 < J < -200$ ohm.

Max input power 3000 W