

490kHz NAVTEX CONVERTER NAV-490

ICS

ICS Electronics Ltd. specialise in GMDSS systems for ships, yachts and coast stations. We are the largest manufacturer of commercial NAVTEX receivers outside of Japan and have supplied many NAVTEX broadcasting systems world-wide

Take advantage of the new NAVTEX Transmissions on 490kHz

NAVTEX for smaller vessels has recently been given new impetus by the introduction of local language and small craft information on 490 kHz. This supplements the coastal waters English language 518 kHz NAVTEX service. Existing ICS NAV4 and NAV4 Plus users can upgrade to receive 490 kHz transmissions by fitting the NAV-490 converter and ANT4/w dual frequency antenna.



The 490 kHz NAVTEX frequency has been designated worldwide as a 'local language' frequency and is already in use for French language transmissions from France. The International Maritime Organisation has asked all other countries to commence transmissions by 2005.

In the UK, the availability of 490 kHz has given the opportunity to provide dedicated Forecasts for waters up to 12 miles offshore. Regular transmissions covering the UK coastal waters are now made from three transmitters twice per day and include a very useful 3 day outlook.

Sample of UK 490 kHz NAVTEX Transmission

FROM NORTH FORELAND TO ST. CATHERINE'S POINT.
WIND: WESTERLY VEERING NORTHWESTERLY, 4 OR 5 DECREASING 3.
WEATHER: ISOLATED SHOWERS.
VISIBILITY: MAINLY GOOD
SEA STATE: SLIGHT, OCCASIONALLY MODERATE

FROM ST. CATHERINE'S POINT TO LANDS END.
WIND: WESTERLY VEERING NORTHWESTERLY, 4 OR 5, DECREASING 3.
WEATHER: MAINLY FAIR.
VISIBILITY: MODERATE OR GOOD
SEA STATE: SLIGHT, OCCASIONALLY MODERATE AT FIRST.

FROM LANDS END TO COLWYN BAY.
WIND: WEST VEERING NORTHWEST 4, OCCASIONALLY 5.
WEATHER: PATCHY DRIZZLE FOR A TIME.
VISIBILITY: MODERATE BECOMING GOOD
SEA STATE: SLIGHT BECOMING MODERATE

FROM MULL OF KINTYRE TO CAPE WRATH.
WIND: NORTH OR NORTHEAST BACKING NORTHWEST 4 OR 5, DECREASING 3 AND BECOMING VARIABLE OVERNIGHT.
WEATHER: PATCHY RAIN DYING OUT
VISIBILITY: MODERATE BECOMING MAINLY GOOD
SEA STATE: SLIGHT BECOMING MODERATE.

NORTHWESTERLY, 4 OR 5, DECREASING 3.
WEATHER: MAINLY FAIR.
VISIBILITY OUTLOOK TILL (DAY 3)
FRIDAY 15 SEP 2000 LOW NORTH SEA MOVING EASTWARDS TO BE OVER BALTIC STATES BY THURSDAY, SHALLOW RIDGE OF HIGH PRESSURE WILL MOVE EASTWARDS OVER THE ENGLISH CHANNEL INTO NORTH SEA, WEAKENING ATLANTIC FRONTAL SYSTEMS SWINGING NORTHEAST BRINGING FRESH OR STRONG SOUTHERLY WINDS AT TIMES TO NW SCOTLAND.

NAV-490 TECHNICAL OVERVIEW

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The NAV-490 converter is designed for use with ICS NAV4 and NAV4 PLUS NAVTEX receivers. In some circumstances use may be possible with non ICS NAVTEX receivers however this is dependent on no DC voltage being present on either the NAV-490 antenna input or NAVTEX receiver connections.

490 or 518kHz NAVTEX services may be selected using the selection switch. A second, remotely mounted switch (not supplied) may also be installed.

TECHNICAL SPECIFICATION

Dimensions (mm)
65W x 115D x 32H
Weight: 0.2kg

Operating Characteristics
Voltage: 10 - 30VDC
Power: 60mA @ 12VDC
Temperature range: 0 - 40°C

Controls
Toggle switch allows either 490kHz or 518kHz transmissions to be selected.

Mounting
Designed for surface mounting on a flat panel with plug in connector strip protruding from the rear.

Connections
Eight way, two part screw terminal connector.
Supplied with 2m receiver /power cables.
No DC voltage allowed on input or output connections.

Note:

- ▶ When set for 490 kHz operation the NAV4 must always be used in manual station selection mode.
- ▶ The NAV-490 should not be used by GMDSS mandatory fit vessels

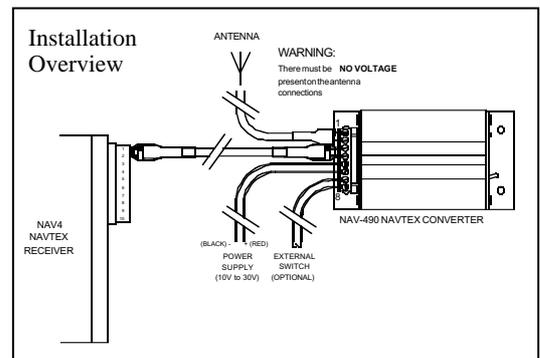
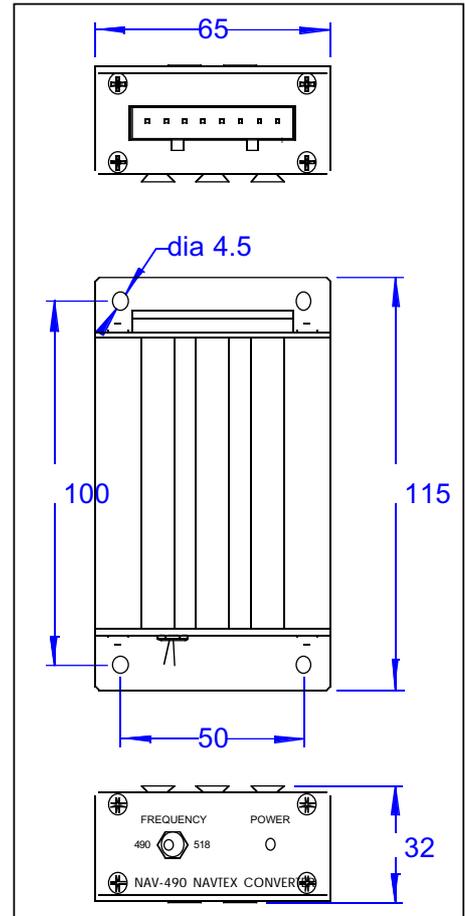
Order code
913.18 NAV-490 NAVTEX converter
904.02 ANT4/w dual frequency antenna

Available from:

Dual Frequency NAVTEX antenna
ICS recommends the 'ANT4/w' dual frequency passive antenna. Existing users of NAV4 with the single frequency ICS passive antenna should upgrade to ANT4/w.

Correct operation can not be guaranteed if other antenna types are used, however most wide band 'active' (with in-built PSU), long wire or whip antenna (with a 50 ohm matching transformer) may be suitable.

NAV-490 detail



ICS Electronics has a policy of continuous product improvement and reserves the right to vary in detail from the specifications contained in this brochure.
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