

# NAV4 *plus* NAVTEX RECEIVER/NMEA PRINTER

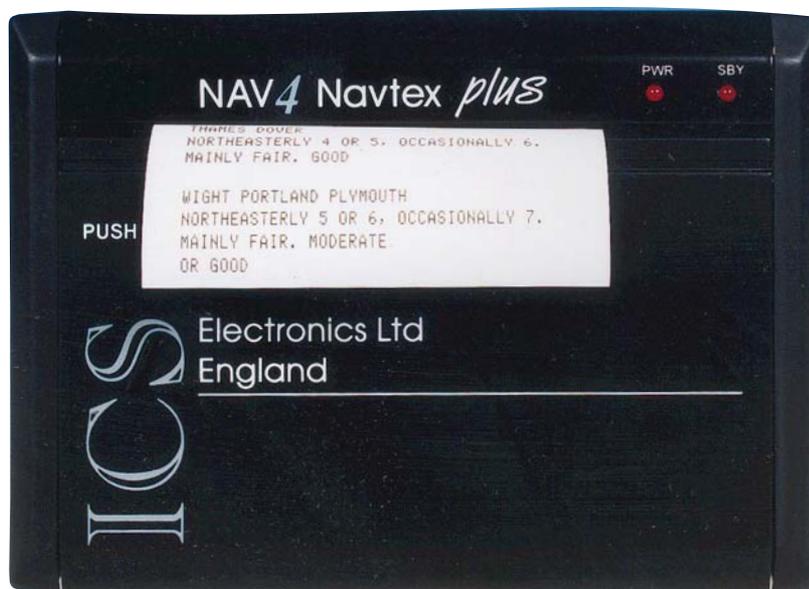


*The NAVTEX service provides English language text information world-wide up to 300 miles offshore. Navigation warnings, search and rescue information, weather forecast and meteorological warnings are transmitted at regular intervals.*

*NAV4 plus operation is fully automatic.*

*ICS Electronics Ltd have a world-wide reputation in the design and manufacture of MF/HF radio data communications equipment. As well as supplying DSC, NAVTEX, Weather Facsimile, Weather Satellite systems to the marine market, ICS equipment is extensively used by coast radio stations and navies throughout the world.*

*The World's most compact printing Navtex receiver*



NAVTEX is an important element of GMDSS and NAVTEX receivers are compulsory for all commercial vessels over 300grt.

NAVTEX on 518kHz provides English language weather forecasts and safety and navigation information world wide.

Each NAVTEX transmitting station has a range of approximately 300nm and broadcasts weather forecasts, gale warnings, navigation warnings, electronic navigation system status messages and search and rescue information for the area covered by the station. Routine broadcasts are made every four hours. If the NAV4 *plus* is kept switched on, once a message has been printed repeats will not be reprinted within 72 hours. Gale warnings and search and rescue information may be transmitted at any time. Search and rescue messages will activate the acoustic alarm.

The NAV4 *plus* provides a cost effective solution to meet the requirements of leisure craft and commercial vessels under 300grt.

As well as providing up to date weather forecasts and navigation warnings, the NAV4 *plus* may be connected to a GPS navigator and integrated instrument system. This will automate many time consuming navigation tasks, leaving you more time to enjoy your sailing in greater safety.

When 'Auto NAVTEX' mode is selected you can choose to receive messages from the closest station, or from all the stations that are within

operational range. The automatic selection of stations is based on an internally stored world wide database of all NAVTEX stations. This facility avoids manual re-programming as the vessel moves into the coverage area of a new station. Paper print out is kept to a minimum as messages from stations out of area are automatically rejected.

The 'Auto log book' facility will print details of the vessel's position, wind speed and direction, speed through water, water depth and magnetic course. This facility is automatically inhibited if the vessel is at anchor or alongside. Should the GPS have a waypoint transfer facility, a list of stored waypoints may be printed.

## FEATURES

- ▶ Extremely compact, rugged construction.
- ▶ Simple to install and use.
- ▶ Station and message category selection.
- ▶ Fully automatic log book printing and NAVTEX station selection.
- ▶ Quiet/standby mode to inhibit the immediate printing of all but "Vital" messages.
- ▶ Table top, deckhead, or panel mounting.
- ▶ Optional 490kHz converter.

*Optional 518/490kHz Switchable Converter*

The NAV4 *plus* is simple to install and use, and is supplied with a comprehensive user manual, power lead, paper roll and 'U' mounting bracket. The passive ANT-4W NAVTEX antenna, or broad band active antenna can be used.

Local language transmissions, often giving more

detailed inshore weather forecasts, are now available from many countries on 490kHz.

The Nav4 *plus* can be made to receive on the new 490kHz Navtex channel, by using the ICS NAV-490 converter

## NAV4 Technical Specifications

### RECEIVER

Receive Frequency 518 kHz  
Sensitivity <2 microvolts  
Frequency Stability: +/- 10 Hz  
Antenna Input 50 ohms

### DATA DECODING

In accordance with ITU-R 540-2

### PRINTER

Type: Thermal, 40 characters per line  
Character Size: 7 x 5 matrix  
Paper Roll: 80mm wide x 20m long  
Paper Out: Audible and visual alarms

### CONTROLS

Power ON/OFF  
Programming Buttons

### INPUTS

NAVTEX Antenna 518 kHz 50ohms  
NMEA 0183 Version 2.0  
RMC or GGA & VTG or GLL & VTG  
VLW

Position:  
Log travelled:  
Speed through water & magnetic course:  
Wind speed and direction:  
Water depth:  
Waypoint list:

VHW  
MWV or VWR  
DBT  
WPL

### ALARMS

Vital Message Receipt  
Paper Out

### POWER SUPPLY

Voltage: 9-30 volts DC  
Power consumption: 1.5 watts standby  
2.5 watts printing

### ENVIRONMENTAL

Operating temperature: 0° to 40° C  
Humidity: 0 to 95% non-condensing

### MOUNTING

Desk-Top, Bulkhead or Panel Mount

### WEIGHT

1.2 Kg

### DIMENSIONS

146Wx106Hx120Dmm

### PRODUCT CODE

914.01

NAV4 plus.  
518 kHz Printing NAVTEX receiver with NMEA logging and automatic station selection. Complete with 'U' mounting bracket and one paper roll.

914.04

NAV4 plus 490.  
Same as NAV4 plus above but for the 490 kHz NAVTEX service only.

### OPTIONS

913.18

**NAV-490**  
490/518 kHz switchable Converter for NAV4 plus.

904.02

**ANT4/w**  
518 & 490 kHz Passive NAVTEX antenna complete with 10m of attached cable. White glass fibre construction with chrome base fitting. For 14 T.P.I. screw thread base mounting.

903.03

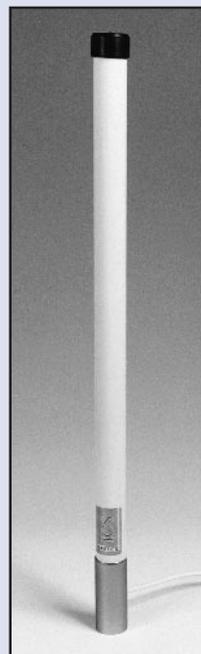
**ANT-CLAMP**  
Plastic Rail Mounting Clamp for the ANT4/w suitable for standard 25mm S/S rails.

913.19

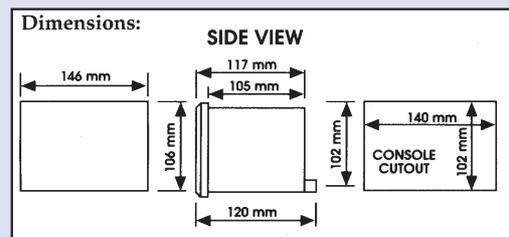
**FMT4**  
Flush mounting option for NAV4 plus.

913.13

**NAV-ROLLS**  
Box of eight NAVTEX paper rolls.



ANT-4w dual frequency antenna



Available from:

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

NAV4 Rev C Rev C 31/08/2001 © 01 ICS Electronics Ltd

ICS Electronics Ltd,

Unit V, Rudford Industrial Estate, Ford, Arundel, West Sussex BN18 0BD, England.

Telephone: +44 (0) 1903 731101 Facsimile: +44 (0) 1903 731105

Email: sales@icselectronics.co.uk Web Site: www.icselectronics.co.uk

