

**SPECIFICATIONS OF NAVTEX RECEIVER  
NX-300**

**1 NAVTEX RECEIVER**

- 1.1 Receiving Frequency 518 kHz or 490 kHz
- 1.2 Mode of Reception F1B
- 1.3 Sensitivity 2  $\mu$ V e.m.f. (50 ohms), 4% error rate
- 1.4 Message Category
  - A: Navigation warning
  - B: Meteorological warning
  - C: Ice report
  - D: Search and rescue information/ piracy and armed robbery
  - E: Meteorological forecast
  - F: Pilot message
  - G: Decca message
  - H: Loran-C message
  - I: Omega message
  - J: Differential omega message
  - K: Other electronic navigational aid and system message
  - L: Navigational warning (additional)
  - M to Y: Reserved – presently not used
  - V: Notice to Fishermen (US only)
  - Z: QRU (no message on hand)

**2 DISPLAY SECTION**

- 2.1 Display System 4.5-inch (95 x 60 mm) Monochrome LCD, 120 x 64 pixels
- 2.2 Display Modes Message Selection Mode, NAV Data Mode, Message Display Mode
- 2.3 Message Storage 28,000 Characters

**3 ANTENNA UNIT**

- 3.1 Selectable Antenna NX-3H-D: H-field antenna for NX-300-H-D  
Others: Local supply antenna for NX-300-N-D
- 3.2 Input Impedance 50 ohms
- 3.3 Power supply +5.0 VDC

**4 INTERFACE**

- 4.1 Input Data NMEA0183 Ver.1.5/2.0, RS-232C, 4800 bps  
GGA, GLL, RMB, ZDA
- 4.2 Output Data Message data for personal computer, RS-232C, 4800 bps  
Data length: 8, Stop bit: 1, Parity: None  
T/R Code: CR+LF, XON/XOFF Control, Local echo: ON

## 5 POWER SUPPLY

12-24 VDC: 180-90 mA

## 6 ENVIRONMENTAL CONDITION

- |     |                     |   |
|-----|---------------------|---|
| 6.1 | Ambient Temperature | Antenna unit: -25°C to +70°C<br>Navtex receiver: -15°C to +55°C                                   |
| 6.2 | Relative Humidity   | 95% at 40°C   |
| 6.3 | Water proofing      | Antenna unit: IEC-IPX6<br>Navtex receiver: IEC-IPX5   |
| 6.4 | Vibration           | ±1 mm ±10%, 5 to 13.2 Hz,<br>Maximum acceleration 7 m/s <sup>2</sup> , 13.2 to 100 Hz (IEC 60945) |

## 7 COATING COLOR

- |     |                 |                                  |
|-----|-----------------|----------------------------------|
| 7.1 | Navtex receiver | Chassis: 2.5GY5/1.5, Panel: N3.0 |
| 7.2 | Antenna Unit    | N9.5                             |