

# Navtech Systems GPS Devices

## GPS Compass NTS-HE102

(With integrated antennas)



The Navtech **NTS-HE102** GPS Compass provides TRUE heading from the GPS satellites. By simultaneous and coincident constellation tracking, two receivers with common processing derive the local GPS position, differential GPS corrections and heading with respect to True (geographic) North.

By using high precision differential carrier phase measurements from the internal antennas, heading accuracies to better than 0.5 degrees can be achieved

For dynamic applications tilt and turn rate sensing (gyro) aiding is included, configured by user commands.

***This provides high accuracy pitch roll, yaw & heading measurements for a fully comprehensive attitude sensor.***

A robust and comprehensive **Ethernet TCP/IP** interfacing provides a versatile heading sensor for a variety of applications that is not affected by magnetic deviation influences or variation offsets. **Power Over Ethernet** is used for the Compass power requirements via an isolated dc/dc power converter

Integrated GPS antennas provide for a complete True North compass solution requiring only a single RJ45 for both power and data interface connections.

### Specifications:

**Power:** POE from 18 – 60 Volts dc @ 4 watts

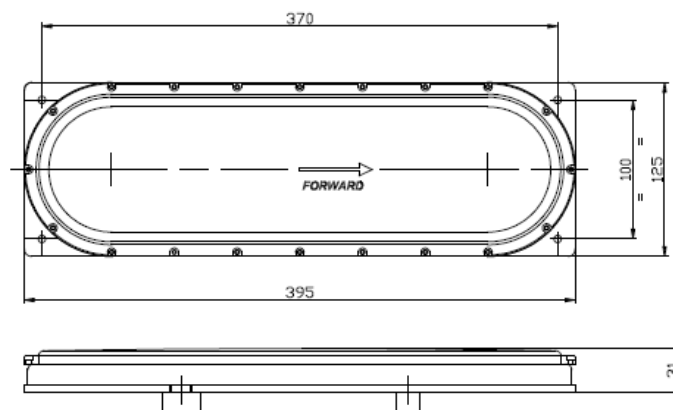
**Interface:** Ethernet TCP/IP configurable baud rate (default 19,200)

***Typical messages - \$GPGGA, VTG, ZDA, RMC, GSV & \$HEHDT,\$HEROT, \$PSATHPR (heading, pitch & roll) – all configurable to user requirement.***

**Dimensions:** 39.5 x 12.5 x 3.4 cm, Weight: 1.2Kg

**Environmental:** NTS-HE102-(IP66) = IP66 with Weatherproof RJ45 Ethernet connector.

### Mechanical



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