

NAVITRON SYSTEMS LTD

NT999G GYRO/MAG AUTOPILOT

Type Approved for HSC & Conventional
Deep Hull Vessels - Notified Body 0191 / 07



ISO 16329 & 11674 / IMO A342 (IX)
as amended by MSC 64/67 Annex 3

Designed and developed by Navitron Systems Ltd for professional use on Magnetic and/or Gyro based vessels of all types – including High Speed Craft (HSC) – from approximately 3000 to 100,000 gross tonnes plus, the Navitron NT999G is a technologically advanced and powerfully equipped Adaptive Autopilot which is clearly displayed and simple to operate.



- **5 Mag/Gyro Heading Inputs :-**
Mag Coil, 3 x NMEA, 1 x Step.
- **Track Steer :-**
Multi waypoint steering via Plotter/ECDIS NMEA data.
- **NMEA & Pulse Speed Inputs**
- **4-20mA Draft Input**
- **Bowthruster & Rudder Control**
- **Off Course and Watch Alarms**
- **Programmable Turns :-**
RAD / ROT, Next Course etc.
- **Automatic Stability :-**
Compensates for Rudder speed variations.
- **Heading / VDR output Data :-**
NMEA, Step by Step & Furuno Heading. \$HTD & \$RSA VDR

Model NT999G

Dims 252mm x 156mm x 48.4mm (depth)

Equally at home in new build and retrofit applications over an exceptionally wide range (ocean going tugs, passenger & cargo vessels, tankers to high speed craft etc.) the NT999G Autopilot offers traditional Navitron reliability reinforced by Adaptive control technology. The Adaptive function automatically monitors and self tunes the Autopilot parameters to provide optimum steering performance whether operating in a low speed towing mode or on a high speed passenger ferry underway at 50 knots.

With a standard scope of supply comprising NT999G Control Unit suitable for foot bracket or panel mounting, robust Rudder Reference Unit and central Distribution Unit, the Autopilot System is immediately compatible with a wide range of vessel steering configurations including single and dual solenoid systems and voltage ($\pm 10\text{Vdc}$) or current driven (4-20mA) Steering Amplifiers.

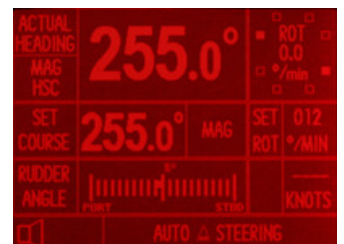
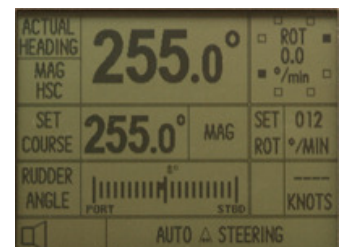
Up to a maximum of 3 Control Units may be installed per system. Each Control Unit is equally equipped with comprehensive displays of Actual Operating Mode, Heading, Rudder Angle, Rate of Turn and Speed Data which is enhanced by Track Steering graphics when the Track Mode is engaged.

The display mode itself (light characters on a dark background or vice versa) is also installation selectable with operator adjustable red backlight illumination to suit individual preference.

Track Mode operation provides single or multi waypoint steering performance based on data received from a proprietary ECDIS/Plotter including – when used in conjunction with an Approved ECDIS – remotely instructed constant radius turns etc.

Other standard features provide “Next Course”, “U Turn” and permanent Heading changes in 1°/5°/10° steps etc via dedicated keys.

Standard outputs produce NMEA, Furuno and Step by Step heading data for Radar stabilisation etc. Optional equipment includes Power Steer Controls, Analogue / Digital Heading Repeaters, Rudder Indicators and Dual Ethernet I/O ports.



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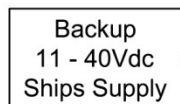
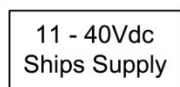
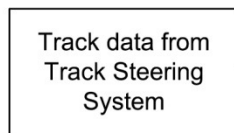
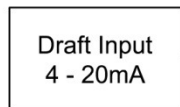
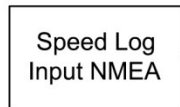
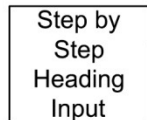
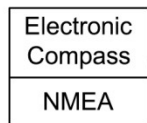
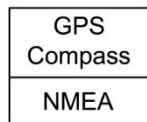
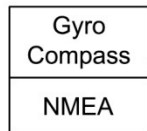
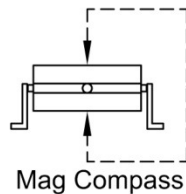
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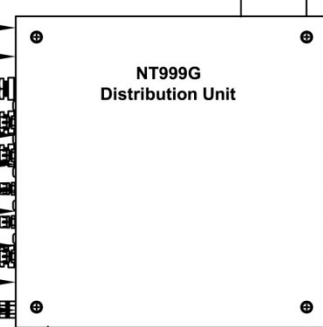
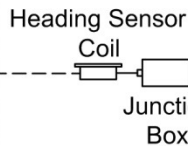
NT999G System Configuration

Inputs:-



Standard Supply:-

NT999G Control Unit



Rudder Reference Unit

Optional 2nd Control Unit



Optional 3rd Control Unit



Outputs:-

Variable Illumination Level

NMEA 0183 Heading Data (x 2)

FURUNO Format Heading Data

Step by Step (to Radar, Plotters etc)

Dual (independent) 11-110 Vdc/5A Outputs to Solenoids

Thruster Channel (x1) and dual isolated Analogue outputs (4-20mA and $\pm 10Vdc$ x 2)

Optional Equipment:-

Dual Ethernet I/O ports

Optional equipment suitable for Direct connection:-

- (i) Watch Alarm
- (ii) Power Steer Controls
- (iii) Rudder Indicators
- (iv) Digital Heading Repeaters
- (v) Analogue Heading Repeaters

Variable Illumination Level

Variable Illumination Level