

Whilst the NT921G and NT990G autopilots are similar in appearance and apparently identical in terms of the parameters specified below, it should be noted that the software structures differ significantly to reflect the steering and response characteristics of vessels up to approximately 2000 grt (NT921G) compared with larger vessels from approximately 2000 grt upwards (NT990G).

Certification Standards: -

Russian Maritime Register of Shipping (R.M.R.S) and Morsviasputnik Type Approved in accordance with ISO 11674 & IMO A342 (IX) as amended by MSC64/67 Annex 3.

Autopilot Input / Output Specifications

Inputs: -		Outputs: -	
Supply Voltage Range	11-40Vdc	NMEA 0183 Heading Data (Isolated RS422)	
Power Consumption	2.5W (@24Vdc)	Update Rate	Selectable @ 1Hz, 11Hz or 22Hz
Illumination Max	8.1W (@24Vdc)		Hz Mag Gyro
Mag Heading Input Ports: -		Sentence Types (Mag/Gyro versus Update Rate)	1 HCHCC HEHDT
Navitron Heading Sensor Coil mounted above or below existing Mag compass	Coil type HSC1 or HSC2		1 HCHDG AGHDT
Resolution	0.25°		11 HCHDM HEHDT
			11 HCHDG AGHDT
			22 HCHDM HEHDT
NMEA 0183 Heading Sentence from Electronic Compass (Priority and max update rate as shown)	XX HDM 25Hz XX HDG 16Hz XX HCC 28Hz XX HDT 25Hz	Resolution	0.1°
Resolution	0.1°	Furuno Heading Format: -	
Gyro Heading Input Ports: -		Update Rate	Selectable @ 5Hz or 40Hz
Isolated 1:1 Synchro (if available in Gyro)	400Hz Excitation from Autopilot	Resolution	Selectable @ 0.166° or 0.1°
Resolution	0.25°	Signal Amplitude	Selectable @ 5Vdc or 12Vdc
NMEA 0183 Heading Sentence from Gyro or optional NT925HDI (Priority and max update rate as shown)		Step by Step Heading Data: -	
Resolution	0.1°	Steps per degree	Selectable @ 3, 6, 12 or 24
Follow Up Rate (Minimum): -		Signal Amplitude	5Vdc
All Heading Input Types	30° / Sec	Navitron Custom Serial Heading Data: - (to Navitron Digital Repeaters)	
Cross Track Error Signal Input (from GPS/Plotter etc. for Track mode use)		Navitron Serial Input/Output Data: - (to / from Navitron Bowtruster Interface and Analogue Steering Interface options)	
NMEA 0183 Sentence types	XX APA	Solid State Solenoid Switching: -	
	XXAPB	Polarity	Selectable @ Common +VE/-VE
	XXRMB	Max Rating	5A (11-40Vdc)
	XX XTE	Panel Alarms: -	
NMEA 0180	(CTE Only)	Power Fail	(int / ext supply fail)
Operating Temp Range	-20 to +60 °C	Steering Fail	(no rudder response)
Operator Control & Selectors: -		Heading Input	(no heading data)
Yaw	Alarm Test/Cancel	Data Input Fail	(no Track data)
Rudder	Autotrim On/Off	Off Course	(specified limit exceeded)
Counter Rudder	Track On/Off	Rudder Limit	(spec'd limit/ROT reached)
Rudder Limit	Track HI/LO Resolution	Remote	(remote station engaged)
Illumination	Off Course Alarm level	Alarm Test	(tests all alarms)
Mode Switch	+1° / -1° keys (NT921G)		
Gyro/Mag Selector	Cancel/Confirm keys (NT990G)	<u>Mechanical</u>	<u>NT921G/990G Control Unit</u>
Compass Safe Distance: -		Width	297mm
NT921G/990G Control Unit	0.6m	Height	176mm
		Depth - behind bezel	110mm
		Weight	3.3Kg

