

Certification Standards: -

Fully Type Approved to ISO 16329 (HSC Code) ISO11674 & IMO A342 (IX) as amended by MSC64/67 Annex 3. Wheelmarked in accordance with MED 96/98/EC

Autopilot Input / Output Specifications

Inputs:-			Inputs:-			
Supply Voltage Range	11- 40Vdc		NMEA 0183 Heading Data (Isolated RS422 / 485)			
Power Consumption	10W		Channel 1 Update Rate	Selectable @ 1Hz, 10Hz, 20Hz, 40Hz or 50Hz		
Illum Max	2W		Sentence Types (Mag/Gyro versus Update Rate)	Hz	Mag	Gyro
Mag Heading Input Port				1	\$HCHDM	\$HEHDT
Navitron HSC etc.	Coil Type HSC 1 or HSC 2				\$HCHDG	\$AGHDT
Resolution	0.25°				\$APHDM	\$HETHS
Gyro / Mag heading Input Ports					\$APHDG	\$AGTHS
Channel 1	Mag	Gyro		10	\$HCHDM (5Hz)	\$HEHDT
NMEA 0183 (Gyro / Mag and 4800 / 38400 baud Selectable)	\$XX HDM	\$XX HDT	20	\$HCHDM	\$HEHDT	
	\$XX HDG	\$XX HDM		40	\$HCHDG	\$HEHDT
	\$XX HCC	\$XX HDG	50		\$HCHDG	\$HETHS
	\$XX HDT	\$XX HCC		Resolution		0.1°
Channel 2	Mag	Gyro	Channel 2	10	\$APROR	\$AGROR
NMEA 0183 (Gyro / Mag and 4800 / 38400 baud Selectable)	\$XX HDM	\$XX HDT	Autopilot Status Data	1	\$APTRC	\$AGTRC
	\$XX HDG	\$XX HDM			\$APRSA	\$AGRSA
	\$XX HCC	\$XX HDG			\$APHTD	\$AGHTD
	\$XX HDT	\$XX HCC	Furuno Heading Data			
Resolution	0.1°		Update Rate	Selectable @ 5Hz or 40Hz		
Follow Up Rate (minimum)			Resolution	Selectable @ 0.166 or 0.1°		
All Heading Input Types	30° / Sec		Signal Amplitude	Isolated 5Vdc (RS422 / 485)		
			Output	20mA Max (Source / Sink)		

			Step by Step Heading Data		
NMEA Speed or Pulse Input Data			Steps per Degree	Selectable @ 3, 6, 12 or 14	
Speed over Ground (SOG)	\$XX VBW \$XX VTG		Signal Amplitude	5Vdc	
Speed Through Water (STW)	\$XX VBW \$XX VHW		Maximum Rate	Selectable @ 8, 16 or 24°/Sec	
200/400 ppNm	5-24Vp/p STW in only		Z out	470R	
Draft Input Data					
Analogue	4 - 20mA		Dual +/- 10Vdc Analogue outputs	Z out 200R	
Track Steer Data Input Ports					
NMEA 0183 Track Data from Track Control System (Priority as shown)	\$XX HTC \$XX APB \$XX HSC		Dual 4 - 20mA Outputs	Max Voltage / Load Res., 20Vdc / 1K	
			Dual Solid State Solenoid Switching		
			Polarity	Comm., +VE / -VE Selectable	
			Max Rating	5A @ 11 - 110Vdc Max	
			System Alarms		
Operating Temperature Range	-20 to +60 °C		Main Power fail	Watch Alarm Timeout	
			Back Up Power Fail	OHA Limit	
			Heading Data Fail	CCA Limit	
Compass Safe Distance			Track Data Fail	Course Change	
Control Unit	0.5m		Steering Fail	Track Heading Change	
Distribution Unit	1.5m		Dist Unit Fail	Dodge Limit	
			Rudder Ref Unit Fail	Custom Limit	
Mechanical Data	Control Unit	Dist Unit	Limit Switch Status	Remote Control Engaged	
Width	204mm	300mm	CCA Data Fail	Control Unit Fail	
Height	132mm	300mm			
Depth - (behind bezel for Control Unit)	48.4mm	120mm	Volt free Auxiliary Alarm Contacts are available (n/o rated 3A) for Watch, Off Heading, Power Fail and System Fail to additional Alarm units as required.		
Weight	1.8kg	9.5kg			

