

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 1/2/3	Mag	Gyro		10	\$HCHDM (5Hz)	\$HEHDT
NMEA 0183 (Gyro / Mag and 4800 / 38400 baud Selectable)	\$XX HDM	\$XX HDT			\$HCHDG	\$HETHS
	\$XX HDG	\$XX HDM		20	\$HCHDM	\$HEHDT
	\$XX HCC	\$XX HDG			40	\$HCHDG
	\$XX HDT	\$XX HCC		50		\$HCHDG
Resolution	0.1°		Resolution 0.1°			
Step by Step Heading Input Port			Channel 2	10	\$APROR	\$AGROR
Type	'S' Type		Autopilot Status Data	1	\$APTRC	\$AGTRC
Voltage	5Vdc Only				\$APRSA	\$AGRSA
Steps / Degree	3, 6, 12 or 24		Furuno Heading Data			
Max Consumption	2mA / Line		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)		
NMEA Speed or Pulse Input Data			Output	20mA Max (Source / Sink)		
Speed over Ground (SOG)	\$XX VBW \$XX VTG		Step by Step Heading Data			
Speed Through Water (STW)	\$XX VBW \$XX VHW		Steps per Degree	Selectable @ 3, 6, 12 or 14		
200/400 ppNm	5-24Vp/p STW in only		Signal Amplitude	5Vdc		
Draft Input Data			Maximum Rate	Selectable @ 8, 16 or 24°/Sec		
Analogue	4 - 20mA		Z out	470R		
Track Steer Data Input Ports			Triple +/- 10Vdc Analogue outputs Z out 200R			
NMEA 0183 Track Data from Track Control System (Priority as shown)	\$XX HTC \$XX APB \$XX HSC		Triple 4 - 20mA Outputs Max Voltage / Load Res., 20Vdc / 1K			
Operating Temperature Range			Twin Solid State Solenoid Switching (Rudder A / B)			
Compass Safe Distance			Polarity	Comm., +VE / -VE Selectable		
Control Unit	0.5m		Max Rating	5A @ 11 - 110Vdc Max		
Distribution Unit	1.5m		System Alarms			
Mechanical Data			Main Power fail	Watch Alarm Timeout		
Width	252mm	300mm	Back Up Power Fail	OHA Limit		
Height	156mm	300mm	Heading Data Fail	CCA Limit		
Depth - (behind bezel for Control Unit)	48.4mm	120mm	Track Data Fail	Course Change		
Weight	2.2kg	9.5kg	Steering Fail	Track Heading Change		
			Dist Unit Fail	Dodge Limit		
			Distribution Unit Fail	Rudder Ref Unit Fail		
			Limit Switch Status	Remote Control Engaged		
			CCA Data Fail	Control Unit Fail		
			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.			

