

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 | | | \$HCHDG | \$HETHS | |
| | \$XX HDG | \$XX HDM | | | 20 | \$HCHDM | \$HEHDT |
| | \$XX HCC | \$XX HDG | | | 40 | \$HCHDG | \$HEHDT |
| | \$XX HDT | \$XX HCC | | 50 | \$HCHDG | \$HETHS | |
| Channel 2 | Mag | Gyro | Resolution | 0.1° | | | |
| NMEA 0183 (Gyro / Mag and 4800 / 38400 baud Selectable) | \$XX HDM | \$XX HDT | Channel 2 | 10 | \$APROR | \$AGROR | |
| | \$XX HDG | \$XX HDM | | | \$APTRC | \$AGTRC | |
| | \$XX HCC | \$XX HDG | Autopilot Status Data | 1 | \$APRSA | \$AGRSA | |
| | \$XX HDT | \$XX HCC | | | \$APHTD | \$AGHTD | |
| Resolution | 0.1° | | Furuno Heading Data | | | | |
| Follow Up Rate (minimum) | | | Update Rate | Selectable @ 5Hz or 40Hz | | | |
| All Heading Input Types | 30° / Sec | | Resolution | Selectable @ 0.166 or 0.1° | | | |
| NMEA Speed or Pulse Input Data | | | Signal Amplitude | Isolated 5Vdc (RS422 / 485) | | | |
| Speed over Ground (SOG) | \$XX VBW \$XX VTG | | Output | 20mA Max (Source / Sink) | | | |
| Speed Through Water (STW) | \$XX VBW \$XX VHW | | Step by Step Heading Data | | | | |
| 200/400 ppNm | 5-24Vp/p STW in only | | Steps per Degree | Selectable @ 3, 6, 12 or 14 | | | |
| Draft Input Data | | | Signal Amplitude | 5Vdc | | | |
| Analogue | 4 - 20mA | | Maximum Rate | Selectable @ 8, 16 or 24°/Sec | | | |
| Track Steer Data Input Ports | | | Z out | 470R | | | |
| NMEA 0183 Track Data from Track Control System (Priority as shown) | \$XX HTC \$XX APB \$XX HSC | | Dual +/- 10Vdc Analogue outputs | Z out 200R | | | |
| Operating Temperature Range | -20 to +60 °C | | Dual 4 - 20mA Outputs | Max Voltage / Load Res., 20Vdc / 1K | | | |
| Compass Safe Distance | | | Dual Solid State Solenoid Switching | | | | |
| Control Unit | 0.5m | | Polarity | Comm., +VE / -VE Selectable | | | |
| Distribution Unit | 1.5m | | Max Rating | 5A @ 11 - 110Vdc Max | | | |
| Mechanical Data | | | System Alarms | | | | |
| Width | Control Unit | Dist Unit | Main Power fail | Watch Alarm Timeout | | | |
| Height | 204mm | 300mm | Back Up Power Fail | OHA Limit | | | |
| Depth - (behind bezel for Control Unit) | 48.4mm | 120mm | Heading Data Fail | CCA Limit | | | |
| Weight | 1.8kg | 9.5kg | Track Data Fail | Course Change | | | |
| | | | Steering Fail | Track Heading Change | | | |
| | | | Dist Unit Fail | Dodge Limit | | | |
| | | | Rudder Ref Unit Fail | Custom Limit | | | |
| | | | 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. | | | | |

