

Instruments ISI15



General

Supply : 10.8-15.6VDC
Transceiver/Expander: 140-180mA
Instruments: 75-125mA
Environmental rating: IP56
Temperature range: 0-55°C (32-130°F)
 Storage: -30 to +70°C (-22 to +158°F)
Display backlighting: Off +7 levels, two lighting banks

Speed

Range/units: 0-99.9 knots, mph, km/h
Resolution: 0.1 speed units
Speed Trim: 0.01 speed units
Average/max. speed: Over trip distance
Speed Over Ground (SOG)
NMEA0183: VHW, VTG, RMC, RMA

Log

Cumulative Log: 0-9999 log units (permanently saved, roll over)
Trip Log: 0-9999 log units (resettable)
Race Log: 0-999.9 log units (race distance)
Resolution: 1, 0.1, 0.01 (4 digit display)
Log units: NM, km

Depth

Sounding range: >100m,
 Sounder On/Off control
Units: Meters, feet, fathoms
Resolution: 0.1 depth units
Deep & Shallow alarms:
 Settable limits, On/Off control
Anchor alarm: On/Off control
NMEA0183: \$.(DBK),DBT,DPT

Water Temperature

-5 to +40°C or 23 to 104°F
Resolution: To 1°C/°F or to 0.1°C
 NMEA0183: MTW

Heading

000-360° Magnetic or True
Course Over Ground: (COG):T/M
NMEA0183: RMA, RMC,VTG
Resolution: 1°

Wind

Apparent/True Wind Angle: 180°-0-180°
Resolution: 1°
Apparent/True Wind Speed: 0-99.9 units
Wind speed units: Knots, m/s, km/h, Beaufort
Wind speed resolution: 0.1 units
Wind speed Alarm: One adjustable limit, On/Off control
Wind Direction: 000-360° M/T
NMEA0183: MVW, VWR

Velocity Made Good (VMG)

Range: 0-99.9 VMG units
Units: Knots, mph, km/h
Resolution: 0.1 VMG units

Timing functions

Passage Time: 0-99.59 hours (roll over to zero/resettable)
Race Timer: 10 and 5 min. /6 and 3 min. count-down. 0-99.59 hours count-up
Local Time: 24hr clock, hrs, min, sec.
NMEA0183: GLL, RMC, GGA, ZDA

Position/Waypoint/Navigation

Lat/Lon: Degrees to 3 decimal points
Datum: As from navigation receiver
COG: See Heading
SOG: See Speed
Waypoint ID: 12 Alpha-numeric characters
Waypoint Bearing: 000-360° T/M
Waypoint distance: 0-999.9 log units
WP distance resolution: 0.01 log units
Cross Track Error (XTE): 0-9.99 nm, km (three decimal points .001-.999)
XTE resolution: 0.001 units
Time to go to destination WP: 0-99:59 hrs
WP closure velocity: Knots, mph, km/h
NMEA0183: GGA, GGL, RMA, RMC, VTG, ZDA, APB, BOD, BWW, BVWC, BWR, RMB, WCV, XTE, XTR, ZTG

