

# EKINOX-N

## SIMULATOR AND FAULT DETECTION SYSTEM

EKINOX-N is SW based system that generates standard and / or proprietary NMEA0183/2000 sentences through user configurable serial ports and / or Ethernet TCP, UDP connections.

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- ◆ Generating complete Navigation systems data.
- ◆ Configurable serial port, communication speed, transmission and data frequency.
- ◆ Definition of Ethernet TCP/UDP definition for any system.
- ◆ Custom TalkerID.
- ◆ Custom HDLC data.
- ◆ Corrupt, missing data, and faulty unit isolation detection.
- ◆ NMEA Terminal screen data monitor
- ◆ Binary data TX and monitoring.
- ◆ TCP/UDP terminal for general use.
- ◆ Replay on the interactive map and data analysis.



It can generate sentences provided by various navigational devices that generate data according to the NMEA/ IEC61162 protocol and these sentences can be transmitted to one or more receivers. With the capability that the system will provide, testing easily its own systems and devices, and solving many problems that will be encountered in the field beforehand are possible. The system provides virtual creation and use of all devices used in navigation systems, monitoring data flow between devices, recording, replaying on the map.



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## SIMULATOR AND FAULT DETECTION SYSTEM

### NMEA SIMULATOR / ANALYZER FEATURES

- Creating sentences for any device, determining the sentences to be created
- Configurable serial port, communication speed, transmission and data frequency
- Definition of Ethernet TCP/UDP definition for any system
- Definition of live simulation for each device
- Custom TalkerID
- Custom HDLC data
- Data-Log
- Displaying the information coming with the analyzer and the incorrect information
- Coordinated operation of all virtual devices
- NMEA terminal screen for general use
- Binary data TX/RX and display
- User-friendly interface
- Save and restore device settings config
- Broadcast and monocast over TCP or UDP
- General purpose TCP/UDP terminal
- High speed URI-10 interface unit
- Transmission up to 3Mbaud

### SAMPLE DEVICES WITH SIMULATION / ANALYSIS

- GPS(GLL,RMC,VTG,ZDA,GGA,GSA,GSV,XTE,RMB,DTM)
- Gyro (HDT,HDG,HDM,ROT,TSS1,HRP)
- Magnetic compass
- ECHO Sounder (DPT,DBT,DBK,DBS)
- EM Log (VHW,VLW,VBW)
- Anemometer (MWD,MWV,VWR,VWT,MTW)
- AIS (Class A, Class B vehicles)
- Radar (TLL,TTM,OSD)
- Special devices