

ZNT-300 Smart NMEA Tester

Pocket-Sized NMEA 0183 Tester (Oscilloscope)

ZNT-300 Smart NMEA Tester is a sub-compact & ultra-light portable NMEA 0183 Tester including a function of general-purpose Oscilloscope and the first development in the world.

It can monitor and diagnose both NMEA 0183 electric signal and data also predict failures by checking of signal quality. NMEA data generation function is very useful to test the equipment on the vessel while the vessel is anchoring. It is possible to re-check the data & waveform on PC after save them in Micro-SD, and ZNT-300 uses a rechargeable battery.



ZNT-300 Smart NMEA Tester is necessary equipment to significantly improve the work efficiency of filed-engineers.

■ Features

- ✦ Easy to carry with sub-compact & ultra-light, and use of rechargeable battery.
- ✦ Monitoring, checking and analysis function of NMEA 0183(IEC61162-1/2) data.
- ✦ General-purpose Oscilloscope which can diagnose NMEA 0183 signal and electric signal.
- ✦ Receive NMEA 0183 data without regard to the existing circuits by using High Impedance circuit.
- ✦ Receive NMEA 0183 data in low voltage which has never received in standard NMEA listener circuits.
- ✦ Save NMEA 0183 data & Oscilloscope waveform in Micro-SD, and check the data on PC.
- ✦ Generate NMEA 0183 data & Pulse signal and useful to test the equipment while the vessel is anchoring.
- ✦ Firmware upgrade and rechargeable via USB.
- ✦ One set ZNT-300 includes a mini USB cable, 2 kinds of probes, a 2GB Micro-SD card, a Black pouch.

■ Specifications

General

Display	Full Color 2.8" TFT LCD (65k, 320x240)
Input Impedance	>500k Ω (NMEA & Oscilloscope)
Max. input voltage	80Vpp (NMEA & Oscilloscope)
Data Storage	Micro SD card (Optional)
PC connection	Via USB as SD card reader

F/W Upgrade	USB
Power & Battery	500mAH 3.7V Rechargeable Lithium-ion battery, USB
Dimension	91 x 62 x 13 mm
Weight	100g

Oscilloscope :

Analog bandwidth	0 ~ 1MHz
Max sample rate	1Msps 12Bits
Horizontal sensitivity	1uS/Div ~ 10S/Div
Horizontal position	adjustable with indicator
Vertical sensitivity	10mV/Div ~ 10V/Div (with x 1 probe)
Vertical position	Adjustable with indicator
Trig mode	Auto, Normal, Single, Scan and Fit Rising/Falling edge/level trigger Trig level / sensitivity adjustable with indicator
Measurement	Frequency, Cycle time, Duty cycle, Peak / RMS / Average / DC voltage Precise vertical / horizontal measurement with markers Hold/Run
Signal Generator	10Hz ~ 1MHz square wave

NMEA 0183 Monitor :

Signal Voltage	Min. 1.4V PP
Data Type	1,200~115,200bps, 7~8bit, 1/2, Parity N/E/O
View Mode	Raw- Display the received NMEA 0183 data or ASCII code, scroll down when exceed 14 lines. Static – Display only NMEA 0183 sentences. (Update changed data without scroll, and display max. 14 lines at the same time.
Check of Data	Display the status of Checksum, Length, Data loss and etc. in many different colors.
Data Generator	Generate mainly used NMEA 0183 sentences. Download NMEA 0183 & ASCII format file and output them. (Coming soon)