



POCKET-SIZED NMEA 0183 TESTER & OSCILLOSCOPE

The X300 Compact NMEA Tester is a sub-compact and ultra-light portable NMEA 0183 reader, complete with built in non-critical oscilloscope function.

With the ability to monitor NMEA 0183 data, diagnose signal issues and predict failures due to signal quality the X300 is the world's first complete NMEA 0183 maintenance tool.

Additionally, the NMEA output feature is useful for testing suspect equipment that requires a NMEA 0183 data input.

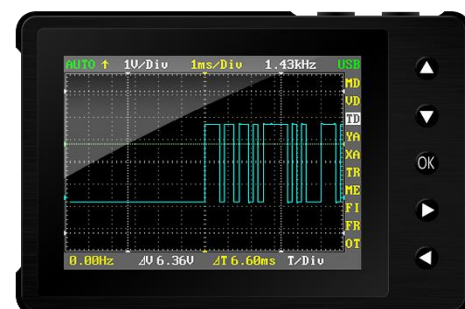
Once data has been monitored it can be stored on the internal storage. The data and waveform may then be analysed on a standard PC or laptop.

Being compact, the X300 runs on a rechargeable battery which can be charged via a computer's USB port or an appropriate AC/DC USB charging port.

The X-300 is a must have tool for all vessel engineers!



NMEA Monitoring Page



Oscilloscope Page

Features

- Easy to carry, sub-compact & ultra-light
- Supplied with a reliable rechargeable battery
- Monitoring, checking and analysis function of NMEA 0183 data (IEC61162-1/2)
- General-purpose Oscilloscope which can diagnose NMEA 0183 signal and electric signal
- Receives NMEA 0183 data without affecting existing circuits, by using a High Impedance circuit
- Receive NMEA 0183 data in low voltage, which has never been received in standard NMEA listener circuits
- Save NMEA 0183 data & Oscilloscope waveform onto the internal storage, and then check the data on a PC
- Rechargeable via USB

SPECIFICATIONS

	GENERAL
DISPLAY	Full Colour 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 WEIGHT	91 x 62 x 16mm, 150g
	OSCILLOSCOPE
ANALOGUE BANDWIDTH MAX	0 ~ 1MHz
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 etc. in different colours.
DATA GENERATOR	Generate \$AGRSA, \$WIMWV, \$VMVBW, \$SDDBT, \$GPGLL, \$GPGGA, \$GPZDA, \$GPRMC and \$YXXDR. Data Field Value modification and Output Interval selection is available for generated NMEA.

**Not calibrated for critical analysis, but is ideal for general purpose use

The X300 comes supplied with:



Main Unit with 2GB Internal Flash Memory and Protective Carrying Pouch



2 x Probe: (Multimeter Probe Type & Grabber Pin Type)



Mini USB Cable