



NE-MS1000 Meteorological Station



METEOROLOGICAL STATION

The Meteorological Station, developed and manufactured by Nero Industries, is a device that measures the change of weather events. Thanks to its high-sensitivity sensors, it measures the change of weather conditions with a minimum margin of error and transfers it to the user via communication interfaces such as RS-422, Ethernet and CAN-BUS.

Meteorological Station can perform the measurements of:

- *Air Temperature
- *Relative humidity
- *Wind speed
- *Wind direction
- *Atmospheric pressure

It is suitable for wheeled-tracked vehicles and command control shelters equipped with light and medium caliber weapons.

TECHNICAL SPECIFICATIONS

Wind Speed	
Range	0 - 45 m/s
Accuracy	± 0.5 m/s +%5
Resolution	0.1 m/s
Response Time	<1s

Wind Direction	
Azimuth	0 - 360°
Accuracy	± 5°
Resolution	0.1°
Response Time	< 1s

Direction Of The Sensor To Magnetic North	
Azimut	0 - 360°
Accuracy	± 5°
Stability	0.30°
Resolution	0.1°

Air Tempereature	
Range	- 40°C - +125°C
Accuracy	± 0.25°C
Resolution	0.00625°C

Relative Humidity	
Range	0 -100 %
Accuracy	± 3 relative humidity
Response Time	1 sec
Resolution	%0.1

Dimensions	
Height	500 mm
Diameter	85 mm
Base Diameter	138 mm
Weight	<5 kg

GPS Positioning	
Latitude	90° N - 90° S
Longitude	180° E – 180° W
Accuracy	0.01 m horizontally and vertically with RTK

General Specs	
Working Temperature	- 40°C - + 80°C
Storage Temperature	- 40°C - + 85°C
Input Voltage	18 - 32 VDC MIL-STD-1275E

Data Trasnition	Can-Bus, RS - 422, RS-
	485, Ethernet

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Range	
	10 - 1300 hPa (mbar)
Accuracy	± 1.5 hPa (mbar)
Resolution	0.012 hPa (mbar)

MILITARY TEST RESULTS

Low Pressure (Operating)	MIL-STD-810G, Method 500.5, Procedure II, up to 3000 m
Sun Radiation	MIL-STD-810G, Method 505.5, Procedure, Category A2
High Temperature (Operating)	MIL-STD-810G, Method 501.5, Procedure II, +55°C
High Temperature (Storage)	MIL-STD-810G, Method 501.5, Procedure I, +60°C
Low Temperature (Operating)	MIL-STD-810G, Method 502.5, Procedure I, -32 °C
Low Temperature (Storage)	MIL-STD-810G, Method 502.5, Procedure I, -40 °C
Humidity	MIL-STD-810G, Method 507.5, Procedure II, Figure 507.5-7
Rain	MIL-STD-810G, Method 506.5, Procedure II
Vibration	MIL-STD-810G, Method 514.6, Procedure I (General Vibration), Category 20 (Ground Tracked Vehicles)
Shock	MIL-STD-810G, Method 516.6, Procedure I, functional shock, 40 g 11 ms, Table 516.6-II, sawtooth impact (3 axes)
Dust	MIL-STD-810G, Method 510.5, Procedure I
Sand	MIL-STD-810G, Method 510.5, Procedure II

- MILITARY STANDARTS

MIL-STD 810 MIL-STD 461F MIL-STD 1275E

