



AMERICAN  
FIRE AND SAFETY SOLUTIONS

WEATHER STATION

# AR-WS40 WEATHER STATION



The Meteorological Station, developed and manufactured by AFSS Industries by domestic and national resources, is a device that measures the change of weather events. Thanks to its high-sensitive 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 and CAN-BUS.

Meteorological Station can perform the measurements of:

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

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

Wind Speed	
Range	0 - 40 m/s
Accuracy	± 0,5 m/s +%5
Resolution	0.1 m/s
Response Time	< 2 s

Wind Direction	
Azimuth	0 - 360°
Accuracy	± 5°
Resolution	0,1°
Response Time	< 2s

Direction Of The Sensor To Magnetic North	
Azimuth	0 - 360°
Accuracy	± 5°
Stability	0.1°
Resolution	0,00137°

Air Temperature	
Range	- 55°C - +250°C
Accuracy	± 0,25°C
Resolution	0,00465°C

Relative Humidity	
Working Range	0 -100 %
Accuracy Tolerance	± 3 relative humidity
Response Time	1 sec
Resolution	%0,01

Dimensions	
Height	421 mm
Diameter	80 mm
Base Diameter	120 mm
Weight	<3,5 kg

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

System General Specifications	
Working Temperature	- 40°C - + 80°C
Storage Temperature	- 40°C - + 85°C
Built In Test	Constant
Input Voltage	18 - 32 VDC

<b>Data Transmission</b>	Mil Can-Bus, RS - 422, Full Duplex
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Absolute Atmospheric Pressure	
Range	10 - 1300 hPa (mbar)
Accuracy	± 1,5 hPa (mbar)
Resolution	0,012 hPa (mbar)
Max. Pressure	10000 hPa

## MILITARY STANDARDS

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