WEATHER SENSOR

MILITARY TYPE

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General Features

Military Type Weather Sensor is a high-tech, accurate and robust device that is produced for ballistic purposes and can be used on fixed or mobile applications for measuring meteorological conditions and transmitting them to target acquisition system.

Military Type Weather Sensor, transmits the data of the following parameters with high precision:

- Wind speed
- Wind direction
- Temperature
- Humidity
- Atmospheric pressure
- Crosswind vector component
- All directions wind vector component
- Ammo temperature (with Optional ATS Module or DTS Module)

Standard RS-485 serial connections is available as data transfer protocol. RS-422, Modbus, TCP-IP Ethernet, Canbus or MilCan can be selected as optional. Fast response time (Patented): In sudden rotations around vertical axis, correct measurement is provided without waiting for thermal stability time by calculating the rotation angle with the built-in IMU sensor. Especially on tank turret and moving weapon control systems, wind direction information is transmitted to target acquisition system instantly (<1 sec)

Thanks to its robust structure and IP 67 protection class, it is resistant to all kinds of harsh climate and environmental conditions, impacts, vibrations, water and dust. Since it has no moving parts, it does not breakdown easily and does not require maintenance.

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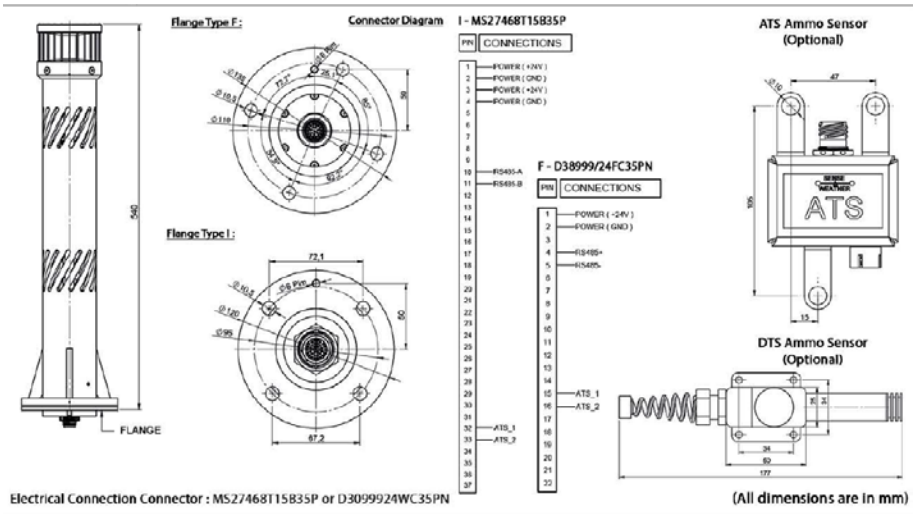
Tests Applied within the Scope of Accreditation
Vibration, Mechanical Shock and Corrosion Test
MIL-STD-810G, Method 514.6 Procedure 1 Category 20-a, Figure 514.6C-3
MIL-STD-810G, Method 528.1, TYPE-1, (Exploratory Vibration Test, Variable Frequency Test and Endurance Test) MIL-STD-81 OG,
Method 516.6 Mechanical Shock Procedure 1
40g@11 ms Sawtooth 3 Axis / Mil STD 81 OG, Method 509.6 Salt Fog

EMC Electrical Tests MIL STD 461 G
CE 102/Conducted Emission, power leads, 1 O kHz-1 O MHz
RE 102/ Radiated Emission, Electric Field, 1 O kHz -18 GHz
CS 118 / Personnel borne Electrostatic Discharge
RS 103/ Radiated susceptibility, electric field

Wind Speed	
Range	0 - 40 m/s
Accuracy	± (0,5 m/s + 5%)
Resolution	0,1 m/s
Wind Speed	
Range (Azimuth)	0 -360°
Accuracy	±5.0°
Resolution	0,1°
Weather Temperature	
Range	- 40°C - + 10°C
Accuracy	± 1°C
Resolution	0,1°C
Athmospheric Pressure	
Range	600 - 1100 hPa (mbar)
Accuracy	± 2 hPa (mbar)
Resolution	0, 1 hPa (mbar)
Relative Humidity (Optional)	
Range	0 - 100 %
Accuracy	± 5%
Resolution	0,1 %

Internal Sensors (Optional))	
IMU	2G, Gyro 300°/s
External Sensors (Optional)	
Ammunition Temperature Sensor ATS	- 40°C - + 110°C ± 0,5°C
Ammunition Humidity Sensor	0 - 100% ±5%
Data Transfer	
RS-485	Standard
RS-422	Optional
Modbus	Optional
TCP-IP Ethernet	Optional
Canbus	Optional
Milcan	Optional
Dimensions	
Height	540 mm (GPS to 522 mm)
Diameter (body)	75mm
Weight	6.5 kg
Electrical Specifications	
Operating Voltage	9-18or18-32VDC
Power Consumption	At start up 30W / Continuous 1 OW



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