

VisPod® Sensor



BENEFITS

- Man-packable and expendable
- One button operation
- Rapidly deployable and self sustaining with batteries/solar panel
- No infrastructure required due to wireless and satellite communication
- Greatly reduces installation costs due to size

APPLICATION

- Battlefield horizontal visibility & present weather
- Airfield horizontal visibility & present weather
- Flight planning
- Short term deployment such as temporary airfields and mountain passes
- Highway visibility
- Precipitation measurement

FEATURES

- Wireless communications and battery/solar option
- Data retrieval from disperse geographic areas
- Auto-networking radio communications
- Defrost Capability

The VisPod sensor measures horizontal visibility and present weather parameters including rain, mist, sleet, and snow. The VisPod also measures precipitation rate of present weather parameters. Visibility can be measured up to 7.1 miles.

The VisPod is the simplest visibility sensor on the market to deploy and requires little investment in time and training. Capable of taking very precise measurements the system still takes less than 10 minutes to deploy and begin transmitting data. The VisPod is comprised of two components - the VisPod Sensor Module (VSM) and the Command, Control, Communication Module (C3Pod). The VSM is the horizontal and present weather measurement instrument. The C3Pod contains the processor, power management subsystem, radio, and batteries.

The VisPod system integrates seamlessly with the SensorPod Network and provides valuable mission critical data when you need it most.



Total Situational Awareness™

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Measurements	Range	Units	Accuracy	Resolution	For Product Information Please Contact: Vince Tate vince.tate@distributedsensors.com 720-235-3835 Pat French pat.french@distributedsensors.com 720-235-3830 Toll Free: 877-547-0962
Horizontal Visibility	.001 to 7.1	miles	10% to 3.1 15% to 7.1	5%	
Present Weather Performance	Rain, Sleet, Snow, and Fog.				
Rain Accumulation	.001 to 999.999	mm	5% of accumulation	.001mm	
Snow Accumulation	.001 to 999.999	mm	10% of accumulation	.001mm	
WMO	50 WMO Codes Reported.				
GPS Location			10 Meters		
GPS Altitude			18 Meters		
Compass	0 to 360	deg	5°	1°	
Tilt	0 to 25	deg	5°	1°	

Mechanical Specifications

Size - Visibility Sensor Module	21" x 17" x 4"	inches
Size - C3Pod	7.5" x 7.5" x 7.5"	inches
Weight - VSM	4.25	lbs
Weight - C3Pod	8.5	lbs

Notice of SBIR Phase III sole-source contract vehicle.

Products, services or continued R&D based on the results of this SBIR may be acquired by any US government entity using a sole-source contract vehicle. This sole-source justification has no expiration date or upper funding limit. See SBA SBIR Policy Directive Federal Register Volume 67, No. 185, September 24, 2002, pages 60082-91.

A white paper on the Phase III contract vehicle and how it can speed your time to deployment of the WeatherPod Network System is available by contacting ADSS at 877-547-0962.

Environmental Characteristics

Environment Temperature (excluding batteries)	-40 to 60 -40 to 140	°C °F
Environment Humidity	0 to 100	% R. H.
Environment Altitude	-100 to + 15,000	Feet

Battery & Charging Characteristics

Battery Life	Operates 30 days on internal batteries at 15 minute sampling interval.	
Battery Cell Type	18650 Lithium Ion Cells	Batteries cannot recharge over 40°C and rated life is reduced 50% at -20°C.
Battery Recharging	Units contain battery re-charging circuits. Re-charge units by plugging them into line power via the external adapter or by utilizing the separate solar panel.	
Solar Recharging	Sized for continuous re-charging based on two sunny days per week for latitudes comparable to Denver, CO. The solar panels are physically separate from the sensors.	

Communications

Radio Modem Range	3	Miles	Range stated for antenna mounted 6' above ground with clear line of sight (400 & 900 MHz Radio Available).
Wired Serial Port	Built in RS-232 serial connection, RS-485 adapter available with direct wire option.		