



AWOS AV™ FAA – Certified Automated Weather Observation Systems



AWOS AV™ Advantages

- FAA Certified
- Lowest Life Cycle Costs for Site Prep, Acquisition, Installation & Support
- Easy Site Selection
- Automated Unicom or Discrete Frequency
- Internet-based Remote Support
- Weather Data Via UNICOM, Internet, and Telephone
- Graphic Display



Graphic Display Software

AWOS AV™ system is a fully automated aviation weather observing and reporting system designed to support airborne and ground users. This FAA-certified AWOS is equipped with dual-pressure sensors and visibility sensors for determining official altimeter settings and visibility, Reporting is via FCC-licensed VHF data radio, Unicom, Internet, or land line.

OSI AWOS AV is a best - value aviation weather system offering high performance at reasonable cost. The system may be configured for all size airports ranging from small landing strips to international airports.

AWOS AV™ Basic

- FAA-approved barometric pressure sensors
- FAA-approved visibility sensor.

AWOS AV™ Options:

- Wind speed/direction sensor
- Temperature sensor
- Humidity sensor
- Ceilometer



AWOS AV Specifications

SYSTEM OPERATING RANGE	
Temperature	-30 to +65 °C
Relative Humidity	0% to 100%

WIND SPEED	
Range	0 to 134 mph (0.00 to 60 m/s)
Accuracy	>67 mph + 3.35 mph (>30 m/s +5%) <67 mph + 1.2 mph (<30 m/s + 0.5 m/s)
Threshold	<1.2 mph (<0.5 m/s)
Temperature Range	-40° to +50° C

WIND DIRECTION	
Range	0-360° Accuracy
Accuracy	<+0.5°
Threshold	<1.2 mph (<0.5 m/s) Resolution
Temperature Range	-40° to +50° C

TEMPERATURE/RELATIVE HUMIDITY	
Temp Range	-40°C to +85°C Accuracy
Accuracy	±1 °C
Resolution	1 °C
Humidity	0% to 100%
Accuracy	± 1.5%

DUAL PRESSURE SENSORS	
Range	17.58 in Hg to 35.6 in Hg
Accuracy	± 0.01 in Hg max
Resolution	0.001 in Hg
Max Drift	0.01 in Hg per year

VISIBILITY SENSOR	
Range	20 feet to 10 miles
Resolution	< ¼, ¼, ½, ¾, 1, 1¼, 1½, 2, 2½, 3, 4, 5, 6, 7, 10 miles
Accuracy Versus Transmissometer	±10% or 10 feet

CEILOMETER (OPTIONAL)	
Range	25 to 12,000 feet
Resolution	25 feet
Accuracy	±5% over entire range
Cloud Layers	4
Measurement Interval	User Selectable

(Specifications subject to change without notice.)



osi awos av170331.docx

2 Metropolitan Ct. Suite 6
Gaithersburg, MD 20878 USA
Tel: +01. 301 963 3630
Fax: +01 301 948 4674
website: www.opticalscientific.com
email: sales@opticalscientific.com

*For the world's best performing
and most reliable advanced
optical instruments, please
contact OSi today!*

