

Successfully troubleshooting RF coverage problems requires precise, non-relative alignment data with absolute traceability. For example, ordering a climber to aim an Alpha sector antenna to 40° azimuth and 3.0° down-tilt can only be accomplished with extremely accurate tools, and these tools must be resistant to variations in magnetic fields.

The **AntennAware**¹ is a permanently mounted monitoring sensor that ensures your specified alignment does not change over time. Measurements made by the **AntennAware** are absolute rather than relative. To ensure your antenna's alignment, the **AntennAware** references two very constant sources of orientation — the force of gravity and the orbit of the earth around the sun.

For multi-component installations, a daisy-chained cluster of AntennAware sensors takes measurements on a continuous basis, which can be transmitted over an AISG interface. Data may be collected by a compatible AISG controller, or any laptop computer.



The **AntennAware** monitoring system is the most reliable, flexible, and cost-effective way for you to ensure your customers are receiving optimal service.

AntennAware Specifications:

Azimuth Accuracy	+/- 0.3 degrees RMS, +/- 1.0 R99.9
Tilt Accuracy	+/- 0.25 degrees
Vertical Accuracy	+/- 0.25 degrees
Weight	12 ounces
Communications	AISG 2.0 with ES-AAS support

AntennAware Attitude Sensor (AAS)



¹Patent Pending

Feature Highlights

- Accurate and simple antenna alignment monitoring
- Eliminate unnecessary, costly tower climbs
- Detection and alarming of misalignment conditions
- Archival of alignment data highlights trends
- Statistics collected characterize antenna sway
- Integrated temperature sensor

Quality Assurance Benefits

- Accurate and actionable data
- Follow-on reporting of alignment enables installation quality assurance
- Avoid unnecessary handovers
- Reduce troubleshooting effort and response time when misalignment conditions occur
- Shortcut customer complaints
- Helps carriers meet performance requirements for location-based services, such as E-911 and value added customer features

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