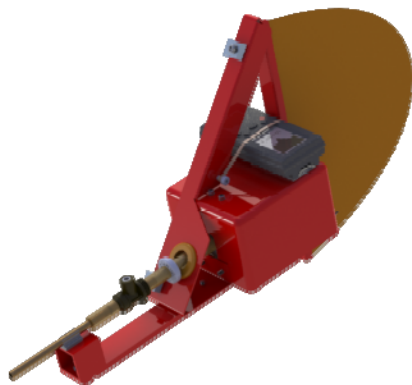


WIND VANE SAMPLING (WVS) SYSTEM

WVS EXPLAINED:

WVS systems are used to establish the constituent concentrations of downwind plumes from point, line, and area sources. A wireless telemetry system allows for direct communications between the ground station and one or more WVS units to allow for remote operations (on/off, flow rate verification, etc.) and continued data feedback and storage. WVS units have the capability to utilize various sampling media including filter cassettes, sample tubes, and impingers. An added GPS located on each WVS can be downloaded separately to determine the exact location of each unit during sampling operations. WVS systems can be utilized on tethered balloon aerostats and UAS units (both shown on the right), fixed towers, and other mobile and fixed sampling platforms.



BENEFITS:

- ✓ Lightweight – 1.65 lbs
- ✓ Versatile and Expandable
- ✓ Easily Deployable on Various Platforms
- ✓ Multiple Units Can Be Attached to the Tether Line of a Balloon Aerostat or UAS
- ✓ Ground Station Can Monitor and Control up to 50 WVS Units at One Time



CAPABILITIES:

WVS systems can characterize plumes with respect to x, y, z and time at prescribed elevations and downwind distances from sources of interest. With the flexibility of accepting multiple sample media types and the ability of being placed on mobile and fixed platforms, applications for this technology are practically limitless. Under Government support, Apogee has utilized WVS units on aerostats in the sampling of lofted plumes for biological and chemical plume concentrations. Other applications include sampling urban/remote ambient air sheds, pollution characterization studies, and release studies using tracers.

APOGEE'S MISSION:

To establish a worldwide reputation for excellence in developing unique and/or improved processes for safeguarding the environment and the security of the nation.

FOR FURTHER INQUIRES, PLEASE CONTACT:

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