

# V&V Data Collection Tools

## AIRSONDE SYSTEMS



The AIR ADAS is a complete ground station for receiving and processing telemetered data from balloon borne meteorological sensor packages.

### System Calibration Reports

Each Airsonde is factory-calibrated in a computer-controlled environmental chamber simulating the atmosphere. Calibration data is stored on punched tape for easy input into the ADAS prior to launch.

## ATMOSPHERIC SOUNDING SYSTEMS

### System Specifications

The AIR Atmospheric Data Acquisition System (ADAS) is a complete ground station for receiving and processing telemetered data from balloon borne meteorological sensor packages.

AIR offers two types of Airsondes for use with ADAS-based sounding systems. The box-shaped Airsonde uses a carbon hygistor for direct measurement of RH. For high-accuracy pressure sensing, all AIR radiosondes use a patented aneroid capacitance pressure sensor. Airsondes are available with ranges specificable to 100mb. Airsondes are made from low mass components, resulting in lighter packages that require a small balloon and little helium. As the Airsonde ascends, pressure, temperature, and humidity measurements are telemetered to ADAS every five seconds, yielding atmospheric data with high vertical resolution.

**The ADAS Ground Station.** The heart of each AIR sounding system is the microprocessor-controlled ADAS Ground Station. It receives and processes the telemetered data, calculates meteorological variables in real time and produces digital output in meteorological units. Collected data can be stored on cassette tape and simultaneously output to computers, printers, or modems through standard electronic interfaces. The ADAS is completely portable and can be powered with internal batteries creating a complete data acquisition system ideal for field experiments.

## ATMOSPHERIC SOUNDING SYSTEMS

\*\*\* Information Provided By the Instrument Manufacturer \*\*\*