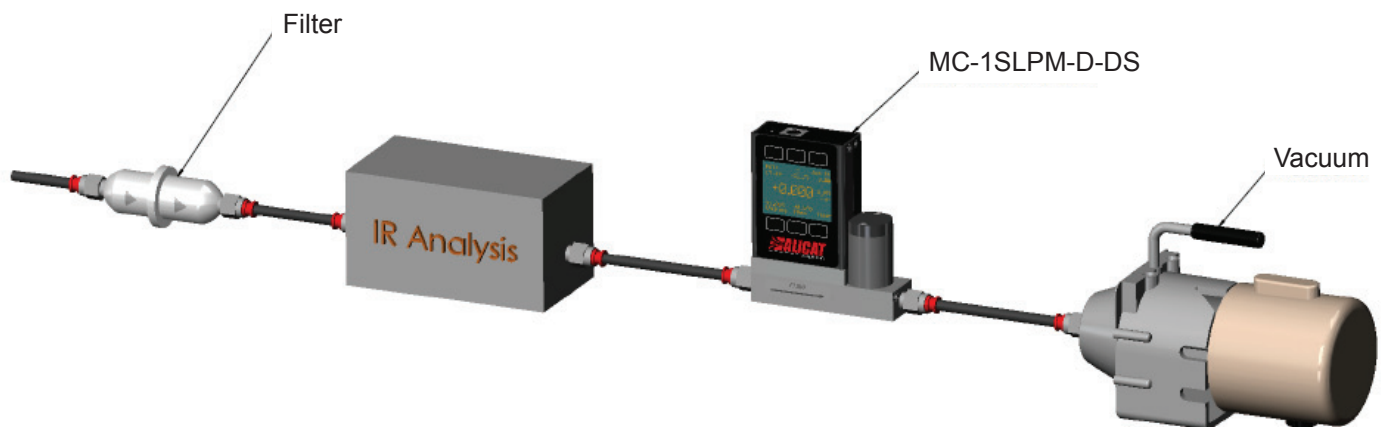


Air Sampling

Many government agencies and research facilities use Alicat Mass Flow Controllers to control sample rates of atmospheric air flowing into particle counters, collection filters and gas analysis instruments.

These applications are used to accomplish air quality tests, emissions tests, and can even be used for bomb detection.



A vacuum pump is used to draw atmospheric air through the test chamber.

An Alicat Mass Flow Controller is used to control the sample mass flow or volumetric flow rate of air through the system.

Data can be logged via RS-232 and the output of Absolute Pressure on the Alicat controller can be used as an indicator of filter capacity.

These applications are frequently installed in aircraft, weather balloons and instrument pods.

Due to the limited pressure differentials available at altitude, and the fact that flow is being driven by vacuum only, Alicat's low pressure drop customizations are often utilized in air sampling installations.

