

APPLICATION NEWSLETTER

PROBLEM: Measuring Flow in Soil Remediation

A project engineer for an environmental systems company needed a device to measure gas flow in a soil remediation system his company manufactures. Soil remediation is the cleaning of contaminants, primarily hydrocarbons, from soil. For decades, manufacturers poured waste products onto the ground behind their plants. Environmental awareness has led to requirements that call for the removal of these wastes from the sites.

One popular cleaning method is to pump air through the soil. As the air leaches through the soil, it picks up the contaminants in the form of vapors. The air and vapors are extracted from the soil, and the system separates the contaminated vapors from the air.

Maintaining the correct air flow rate is very important to the operation. Too high a flow rate results in the air passing through the separation tank too quickly. A low flow rate results in the system taking too long to remove the contaminants. The air flow is also used to determine how much contaminant has been

removed, by comparing the flow rate to the PPM of contaminants that air sniffers detect.

SOLUTION: The Accutube was the best solution for this measurement. In fact, a number of companies that manufacture soil remediation systems have come to the same conclusion and standardized on the Accutube. There are several reasons for this:

- *The Accutube's narrow profile results in negligible permanent pressure loss. This is important because these systems work at low pressures.

- *When properly installed, the Accutube is not affected by the condensation of the vapor that can occur in these systems.

- *The small size of the Accutube makes it easy for the project engineer to fit it into the system.

- *Once installed, the Accutube is virtually maintenance free.

- *The Accutube's cost is attractive compared to other primary elements with similar accuracy.

