

# APPLICATION NEWSLETTER

**PROBLEM:** Measuring Flow in an Underground Pipe

An instrumentation engineer for a chemical plant needed to measure water flow in a pipe. He wanted to use an Accutube, but there was a problem. The section of pipe where the flow measurement needed to be taken was buried underground. Once the Accutube was installed, the engineer had to be able to access all the valves, fittings and the transmitter without having to dig. This meant that the head of the Accutube had to be above ground.

**SOLUTION:** The Accutube was used in this application. This was accomplished by extending the

probe so that the length between the packing gland and the probe head was 7'6". This placed the probe head above ground which allowed the instrument valves and the lines to be attached and worked on without having to dig down to the pipe.

The sensing ports were placed in the same location as they would have been on a standard length probe. Because the probe, from the packing gland into the pipe, was in effect a standard probe, the standard sizing software was used to determine differential pressure and harmonic vibration ranges.

Extending the probe length is a way to connect valves and instrumentation when the Accutube head is obstructed by insulation, valves and other pipes.

