Levelling up liquid – The Bubble Level Measurement system
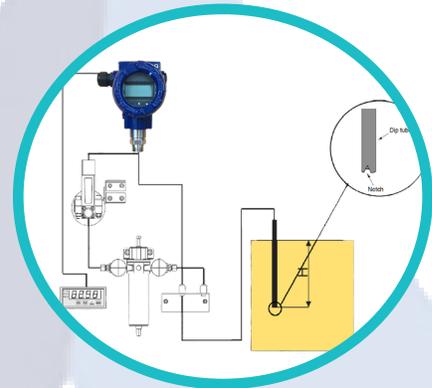
Some Industrial environments can be known for their harsh conditions. In the petrochemicals sector for example process liquids can be extremely corrosive, leading to the damage of standard liquid measuring equipment. Likewise in other sectors such as water treatment, sampling ports designed to test fluid safety can be prone to plugging, causing difficulties during analysis.

This is where the Bubble Type Level Measurement System comes in, it is designed not just to handle highly corrosive fluids. But it also benefits users with a low-cost installation, providing long term savings during its lifetime operation.

Simply put, the system works by using clean air to measure the amount of pressure it takes to push air bubbles out of a probe tube into liquid within a tank. As the liquid level in this tank varies so does the pressure needed to emit bubbles from the tube. These variations are detected precisely by our pressure transmitters giving a signal output in proportion to the liquid level.

Our D Series pressure transmitters can be easily integrated into the Bubble Level System to ensure an accurate reading. If you need to measure liquid in an open atmosphere tank we'd recommend the D21 Pressure Transmitter. And for a pressurised tank we suggest the D31 Differential Pressure Transmitter. Both benefit from an easy set up and can be configured either using a standard HART communicator or alternatively using Delta Mobrey's D-Soft communication software. Both feature an accuracy of 0.075% as standard, though depending on your application we can provide even greater accuracy.

Do you require transmitters for your Bubble Level System? Why not contact us and find out how we can assist. In addition to the D21 & D31 transmitters we can also provide other Bubble Level System components or even the whole system itself.