14. Bubble detection during pipe fitting

Bubbles thrusting into a device during pipe fitting can be detected using the technology of electrical conductivity.

Measuring principles

Install two electrodes inside which is made of plastic, facing each other, and then measure the small current flow between those electrodes.

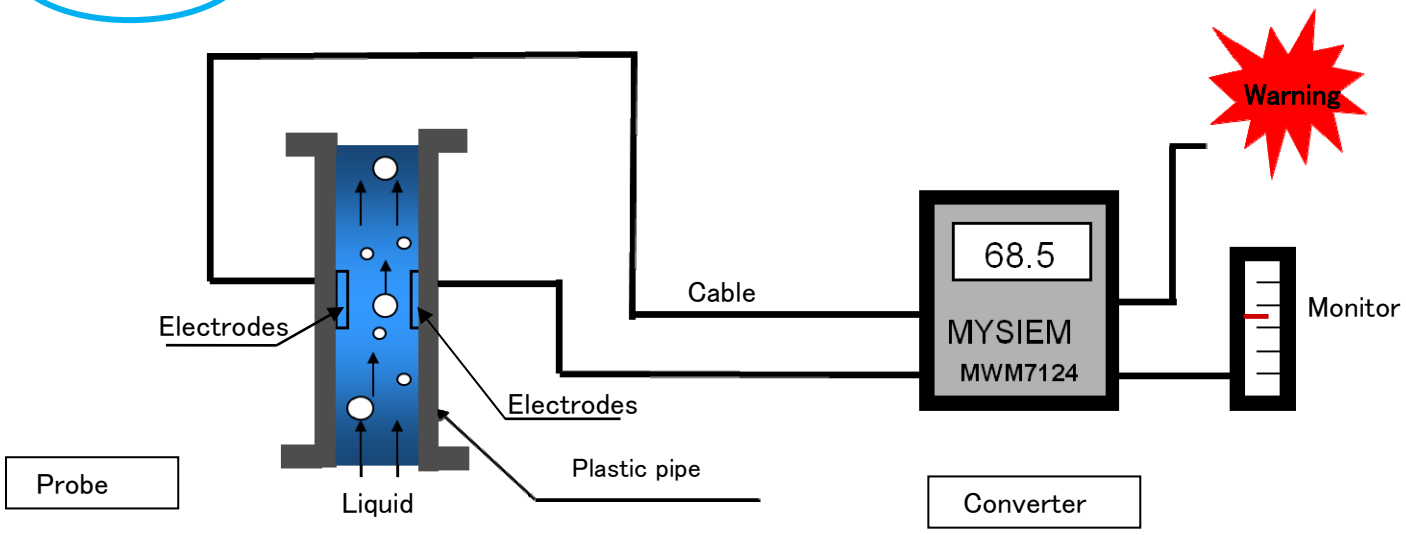
A current value is different when it's charged with conductive liquid, or when it's mixed with bubbles.

The bubbles mixed in liquid can be detected by monitoring the difference.

That is Myseam MWM7000 series.

When bubbles are mixed, it will output a contact signal. The combination with the probe manufactured for each liquid type will be required.

Equipment configuration



How to use

Probe → Designed with a structure and materials that are suitable for detecting bubbles.

Employed cable → Use all-purpose shielded cable, or a special cable in the case the terminal position is high.

Converter → Use Myseam MWM7100, Mystar MCM2121 or MYM3130. Analog output provides an operation check, which ensures the safety use of the system.