

ABSTRACT OF THE DISCLOSURE

A method and apparatus for measuring a liquid level using a liquid level gauge having reed switches to determine the position of a magnetic float. Firstly providing an elongate float having an axial bore defining a longitudinal axis. The float has a plurality of magnets axially spaced along the longitudinal axis to form magnetic layers. Secondly, providing a tube having a first end and a second end. A plurality of magnetically activated reed switches are equally axially spaced from the first end to the second end. The tube extends through the axial bore of the float. Thirdly, determining which of the plurality of magnetically activated reed switches have been activated by the axially spaced magnetic layers of the float and interpolating float position in relation to the activated reed switches.

