LTM Level Probe

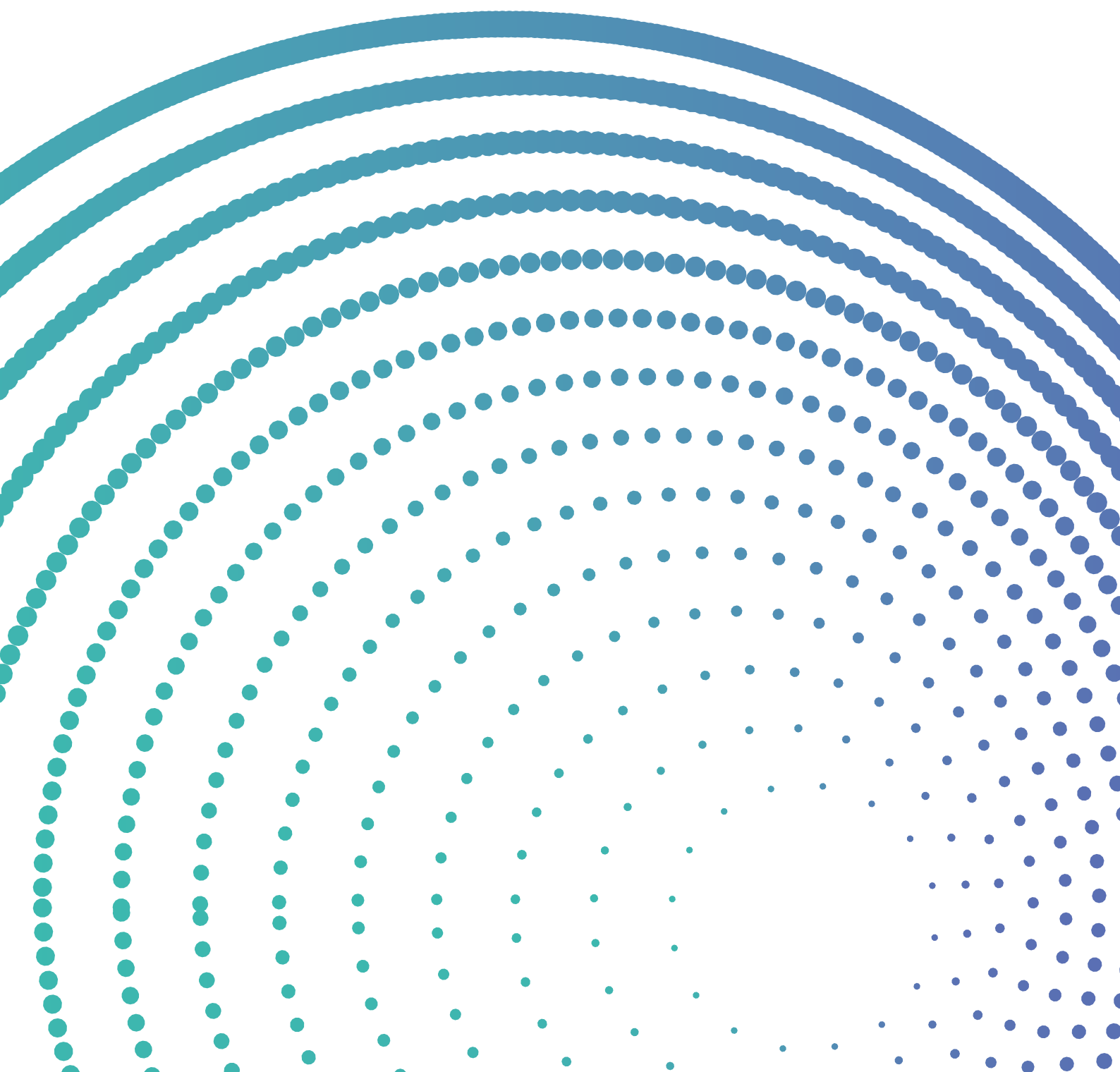## Accurate and Effective Pulp, Slurry and Water Level Measurement

MOLYCOP

LTM Level Probe Overview

The LTM-2 level sensor provides accurate level measurement for the mining industry in various applications - typically in flotation banks, individual flotation cells or in concentrate sumps to provide consistent accurate pulp level. The unique measuring principle of the LTM-2 allows it to measure the slurry level and ignore the froth component of the flotation cell.

Technologies such as float balls and ultrasonic targets are often adversely affected by the build-up of froth, foam and solids, however, these conditions have no effect on the LTM-2 probe as it has no moving parts. LTM-2 probes are engineered to be robust and will generally provide years of operation when installed correctly.

Features

- Compact and robust sensor with minimal size ratio
- Individual parameter adjustment or programming via PC interface
- Electrical connection via M12-plug
- Current signal for measurement range, dry signal and error signal adjustable
- Not affected by density changes
- Near instantaneous measurement (100 mS per reading)
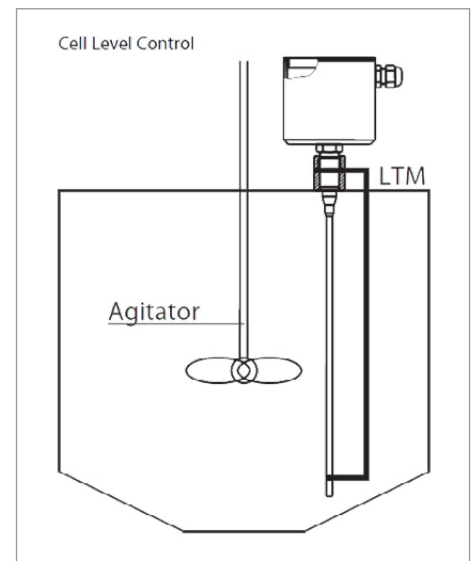
Functional principle

The measuring principle measures the change in the voltage ratio between the electrode rod of the sensor and the metallic bracket. An electric flow field arises in the medium due to the conductivity of the medium and its capacitive properties.

This gives rise to a voltage ratio that is proportional to the immersed part of the rod. Electrical conductivity does not impact

the measurement result. The sensor also provides information on the immersion situation of the electrode rod in the medium. This system analyses electrical properties to detect foam and suppress it in the results, and to reliably prevent erroneous measurements due to adhesions.

Optional accessories

Pre-assembled connecting cable for M12-plug	Programming adapter MPI-200 with PC software	Hastelloy C22 (2.4602) rod

Benefits

- Accurate Slurry level monitoring
- Conductive working principle
- 1% measurement accuracy
- 1% measurement linearity
- Near instantaneous measurement (100mS)
- Very impervious to water, slurry and dust
- Data available for existing PLC, DCS, OR SCADA
- Web based Trending and Reporting
- High quality Hardware
- Remote support

If you're interested in exploring Molycop's products and services, we're here to help.

MOLYCOP

molycop.com
All Rights Reserved 2023