

Continuous Level Sensor LTM-2

ACCURATE AND EFFECTIVE PULP, SLURRY AND WATER LEVEL MEASUREMENT

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.



BENEFITS

- Fast, continuous, accurate measurements of the pulp/ froth interface allowing for improved process control and stability
- Ideal for pairing with the FloatStar control module and the StarCS Advanced Process Control suite
- Substitute for float sensors
- Reliably prevent erroneous measurements due to adhesions.
- Quick and simply setup and installation
- Easy to remove and clean
- Low maintenance



FEATURES

- Compact and robust sensor with minimal size ratio
- 2-wire sensor with 4...20 mA output signal
- 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)

OPTIONS/ACCESSORIES

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

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.



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