



- Product leaflet

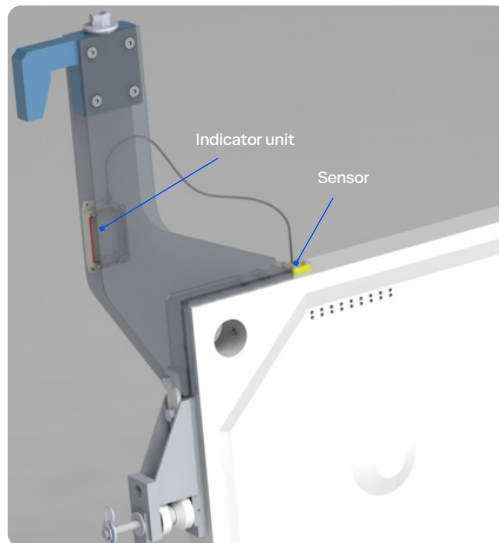
IntelliPlate™

Higher filter availability, lower lifecycle cost

The IntelliPlate™ turbidity-detecting plate alarm system automatically detects and locates solids bypass within the filter press stack. By leveraging our advanced plate technology, operators can enhance productivity through smarter, data-driven maintenance planning.

Applications:

- Tailings
- Base metal concentrates
- Coal



Key benefits

▪ Improved plate life

The IntelliPlate alarm system senses, locates, and alerts you of a solids breach in the filter media before damage to the filter plate can occur, effectively increasing your plate life. As solids pass through holes in the filter media, high liquid and air velocities can occur resulting in plate erosion and premature plate failure. The alarm system alerts you to holes in the filter media so that you can proactively act to prolong your plate.

▪ Increased production with less unplanned downtime

Filter media life is finite. Current best practice is to replace the filter cloth well below the threshold of maximum life in order to prevent failures prior to planned maintenance. The alarm system provides the ability to operate filter media to the full life of each cloth while reducing the risk of unplanned maintenance. The IntelliPlate alarm system also mitigates downtime by pinpointing cloth failure with an indicator light.

IntelliPlate™

How it works

A sensor is located in the filtrate port of each filter plate. As the operating filter progresses through the cycle, the IntelliPlate alarm system continually maps filtrate turbidity.

We establish a tuned algorithm for your normal operational parameters, with upper and lower limits adjusted per filter cycle. If a filter cloth develops a hole or leak that allows solids to enter the liquid filtrate, the solids will pass the port with the mounted sensor. If the solids ratio exceeds the established threshold an alarm will trigger, and the operator can quickly identify the specific filter plate with the failed filter media.

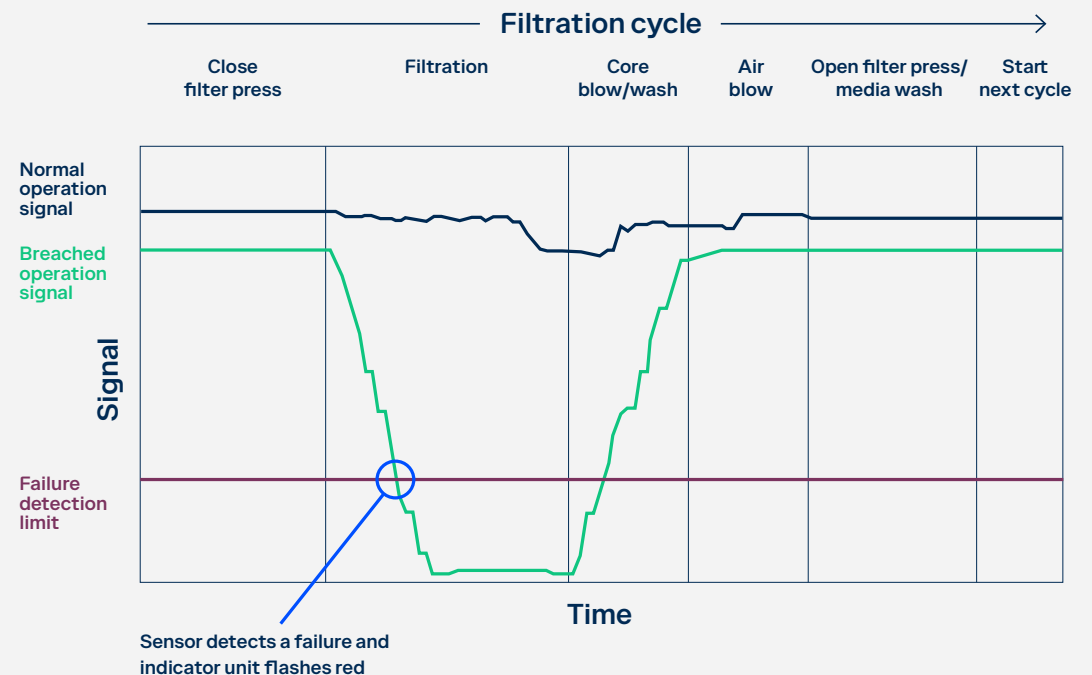
Advantages

- Reduced unplanned downtime and improved availability
- Extended plate and filter cloth life
- Powerful tool for analytics to diagnose and predict cloth life
- Retrofittable on existing FLS filters
- Self-contained with sensor and LED alarm, operating independently
- Plate-mounted, battery-powered unit – self-calibrating with on-board learning.
- Higher throughput

Turning insights into actions with FLS lifecycle services

Maximise filter potential with FLS lifecycle services tailored to your operation. As your filtration partner, we help ensure your equipment meets performance targets, while extending asset life and improving operational efficiency.

Sensor and indicator of the IntelliPlate system






FLS is a leading, full flowsheet minerals processing supplier to the global mining industry. We deliver proven technologies and services across the lifecycle of operations, and have set targets of providing solutions for zero-emissions mining by 2030 with our MissionZero programme.


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