

5801 Gravity Belt Thickener Controls

Reduce polymer and labor costs with a breakthrough system from FSI Technologies Inc.

The FyrEye-5801 machine vision system will continuously monitor the sludge on Gravity Belt Thickeners and similar types of systems. It serves the dual purpose of ensuring the proper operation of the equipment, as well as providing an efficient and effective automated control over the polymer/sludge blending process.

Benefits:

- Reduce polymer usage and materials cost
- Reduce labor costs
- Support unattended plant operations
- Sludge consistency for downstream processes

Outputs:

Various output configurations are available. Two of the most popular configurations are:

The first configuration provides for two outputs:

- 4-20 mA signal providing the width of the sludge strip, which can be scaled for the maximum "in-range" strip width.
- Discrete signal, confirms that a valid strip width measurement is present and can be set to envelope the extremes of a valid strip width.

The second configuration utilizes three discrete outputs to indicate 4 conditions:

- Sludge strip too wide.
- Sludge strip width OK.
- Sludge strip too narrow.
- No measurement/sludge present (fail safe).

In all configurations a graphic user interface option is available to provide a wide range of display options.

Examples are:

- a. Live video of the sludge strips.
- b. Add measurement graphics to live video.
- c. Strip measurement values.



- d. Visual alarms.
- e. Status indicators.
- f. Trending and summary information.

The FyrEye-5801 is a family of systems and solutions adapted and verified for individual applications and objectives. Our APS (Assured Path to Success) roadmap guides the process to 100% success, from inception to long term ownership.

The FyrEye5801-02 is an example; a system designed to handle 3 GBT's simultaneously and perform in



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accordance with the mission and conditions specified in a "Vision Application Specification" document. (VAS - 8501-02).

Selective image storage of process deviations permits convenient review at a later time.

This particular system includes three separate cameras with water and corrosion resistant enclosures, a 5 foot camera standoff capability, and up to 75 feet of cable between the camera(s) and processing unit. All non-camera components/electronics are integrated into a single enclosure.

Please contact FSI for a system and solution that is confirmed for your application.

FSI has been a trusted factory automation manufacturer for over 50 years. Our Assured Path to Success™ methods and programs have a 100% success rate in this field of machine vision. Because our engineers are deeply involved in understanding the application, recommending the products, and supporting the software, these systems are uniquely suited for long term supportability and standardization.

