

“ Red-Tech “

“Affordable solutions to automated flocculation control “

APPLICATION:

The “ Red-Tech “ controller is used for the optimised control of flocculent addition to clarifiers, settlers, thickeners, high rate thickeners and DAF systems. A robust design makes it a highly effective and competitive in mining, process, pulp and paper, water treatment and underground applications.

FEATURES:

- Low maintenance.
- Password protected
- Build in lightning protection.
- 3CR12 Anti Corrosion Enclosure.
- Local manufactured components.
- Expansion for coagulant control.
- No maintenance vacuum system.
- Current isolation on current output.
- Optical liquid solid separation detection.
- Quick tube removal system for maintenance.
- Allan Bradley / Siemens PLC and Display options.

OPTIONAL:

- Turbidity and Coagulant Control
- Online acid self-cleaning system.
- DeviceNet, DH+, and Profibus compatible
- Data and control parameters network expandable.

BENEFITS:

- Online monitoring.
- Direct settling rate output.
- Rugged and Robust Design.
- Predictable feed forward action.
- More constant underflow density
- Simple set-up and commissioning.
- Real-time settling rate adjustments.
- Flocculent Optimisation & Saving
- Compensate for feed flow and solid variances.

REQUIREMENTS:

- Clean water supply 3-4 bar. (200 L/hr)
- 110 / 220 VAC power supply @ 5 Amp.
- 4 Bar Instrument Air

OPERATION:

- A post flocculent sample is drawn into the settling tube.
- Online sensor detects level of flocculation and settling.
- The actual settling rate is compared against the required.
- Pump speed is adjusted to compensate for the detected error.

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