



305 Armstrong Avenue, Unit 9,  
Georgetown, Ontario  
Canada L7G 4X6

Phone: 905-873-7791  
Toll-free (NA): 1-855-873-7791  
FAX: 905-873-6012

E-Mail: [markland@sludgecontrols.com](mailto:markland@sludgecontrols.com)

[www.sludgecontrols.com](http://www.sludgecontrols.com)

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## Find Your Blanket with this Automatic Sludge Level Detector

Markland's Detector monitors solid-liquid interface levels in clarifiers and sedimentation basins (including lamellas and decanting tanks) and automates silt/sludge removal. It allows users to program de-sludge pumps to operate only when necessary, preventing carryover, optimizing feed density and reducing energy usage. Slim profile and use of LEDs make it ideal for obstructed/constricted areas. No calibration required.

Automating de-sludge pumps helps users avoid pumping thin sludge or large volumes of water (as when a core hole is pulled), enhance the de-watering process, and improve outflow for reuse. In addition, features are uniquely suited for specific applications. For example, in DAF (dissolved air flotation) units, the detector can adjust the speed of the surface skimmer to match changes in the thickness of the floating sludge layer; in SBRs, it can control the decant valve, enabling cycle time to be kept to a minimum. Eliminating unnecessary pumping reduces wear-and-tear on pumps, downtime for maintenance, and energy usage.

The detector uses a vertical probe (4- and 8-foot models are available), submerged only to a depth that enables operators to maintain desired sludge interface levels (often offset from the bottom of the tank). High-intensity infrared lights and matching phototransistor sensors, running the length of the probe, are sequentially scanned to locate both settled bed and overlying cloud layer, automatically adjusting intensity for different concentrations. When sludge blanket levels reach the preferred maximum or minimum, the detector signals a computer/control system to turn sludge removal pumps on or off. The all-PVC probe is corrosion-free. A wireless data link is available.

Contact:

Scott Langstaff

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