



## Trusted Solutions for Flood Gate Monitoring

# INCLINOMETER

## Flood Gate Tilt Sensor



### NEW INCLINOMETER Sensor from ADS®

The INCLINOMETER sensor utilizes an integrated accelerometer in a sealed and intrinsically safe housing to accurately determine the state of a flood gate's positioning in water control and management systems. It is easily installed and supports a variety of sensor orientations.

#### Accelerometer-based angle detection

The INCLINOMETER measures the angle opening (+/-) of a flood gate in harsh environments. The angle measurement of the gate is logged at synchronous intervals based on the ADS **TRITON+**® data recording rate. If the opening (angle) exceeds a user-defined threshold an alert will be sent to notify the end user of the event.

#### INCLINOMETER Solutions

The INCLINOMETER sensor provides users with a rugged, precise measurement of movement for gates, hatches, valves or doors utilized in wastewater collection systems. It can be used in the following applications:

- **Real-Time Alarming of CSO Activations** - The movement data is essential for real-time alarming of CSO activations, particularly in areas that experience tidal or river influenced overflows. In these situations where receiving water bodies influence discharges, operators do not have certainty that overflows are occurring without the Inclinator showing gates as open or closed. The INCLINOMETER can also identify gates that are stuck open or leaky, contributing additional flow to the treatment process.
- **Bending Weir Overflow Volumes** - Use to directly measure overflow volume in a Bending Weir application by measuring the angle of the weir and the weir manufacturer-provided discharge table.
- **Intrusion Alarm** – Use to provide intrusion alerts when mounted on doors or hatches in the wastewater collection system.



Stainless steel screws



Stainless steel clamp



Construction adhesive



Zip tie in place

# INCLINOMETER

## Flood Gate Tilt Sensor Specifications



**Housing** Solid molded ABS providing high impact and abrasion resistance in a fully sealed device

**Dimensions** Height: 0.87 in. (2.20 cm)  
Width: 2.03 in. (5.16 cm)  
Length: 3.00 in. (7.62 cm)

**Weight** 1.5 lbs. (0.68 kg) including 25 ft. communication cable and connector

**Operating Range** 0 to 90°

**Accuracy** +/- 0.25° between 0 and 40°

**Resolution** 0 to 60° = 0.03°  
60 to 90° = 0.3°

**Mounting Options** Mount on any flat surface of the wastewater side of a closed flood gate, or closed door or hatch when monitoring for intrusion alarms

Mount using construction adhesive

Mount using stainless steel screws

Mount using zip ties

Mount using stainless steel clamp

**Compatibility** The INCLINOMETER sensor is ONLY compatible with the ADS **TRITON+**® flow monitor via the communication port



**Qstart™XML** - setup and activation

**PRISM™** - provides angle entry and tilt alarms

### Certifications



Certificate No: 940056



Learn More About **TRITON+**  
[www.adsenv.com/triton](http://www.adsenv.com/triton)



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