



BROCHURE

TOTAL TRACK MONITORING

# Flood Monitoring

An essential monitoring solution for railroads

# L.B. Foster Flood Monitoring

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**Flood Monitoring** by L.B. Foster is a wireless system that monitors water levels in flood-prone areas.

The Inline Flood Pole precisely measures water levels down to the inch, providing the ability to preset alarms at various depths. Once activated, solar-powered cameras are triggered to identify the alarm area, initiating a customer emergency response to prevent flooding derailments.

- > Real time continuous monitoring
- > Can operate anywhere - no direct power and no outbound communications required
- > Local relay outputs
- > Provides detailed flood reports to prompt appropriate response
- > Promotes greater safety by eliminating dangerous 24-hour inspections



## System Features

### REMOTE CONDITION MONITORING

- > Connect 20 Inline Flood Poles
- > Webportal event analytics
- > Solar powered PTZ camera optional
- > Email alarms

### INLINE FLOOD POLE

- > 2,000 ft communication range
- > 3-year battery life
- > External capacitance sensing

**Total Track Monitoring** by L.B. Foster features sophisticated data management software. Event data resulting from the flooding is captured, stored, and analyzed, providing detailed intelligence on event regularity and severity. This allows system operators to build a detailed event profile and identify actions to prevent or offset future events.

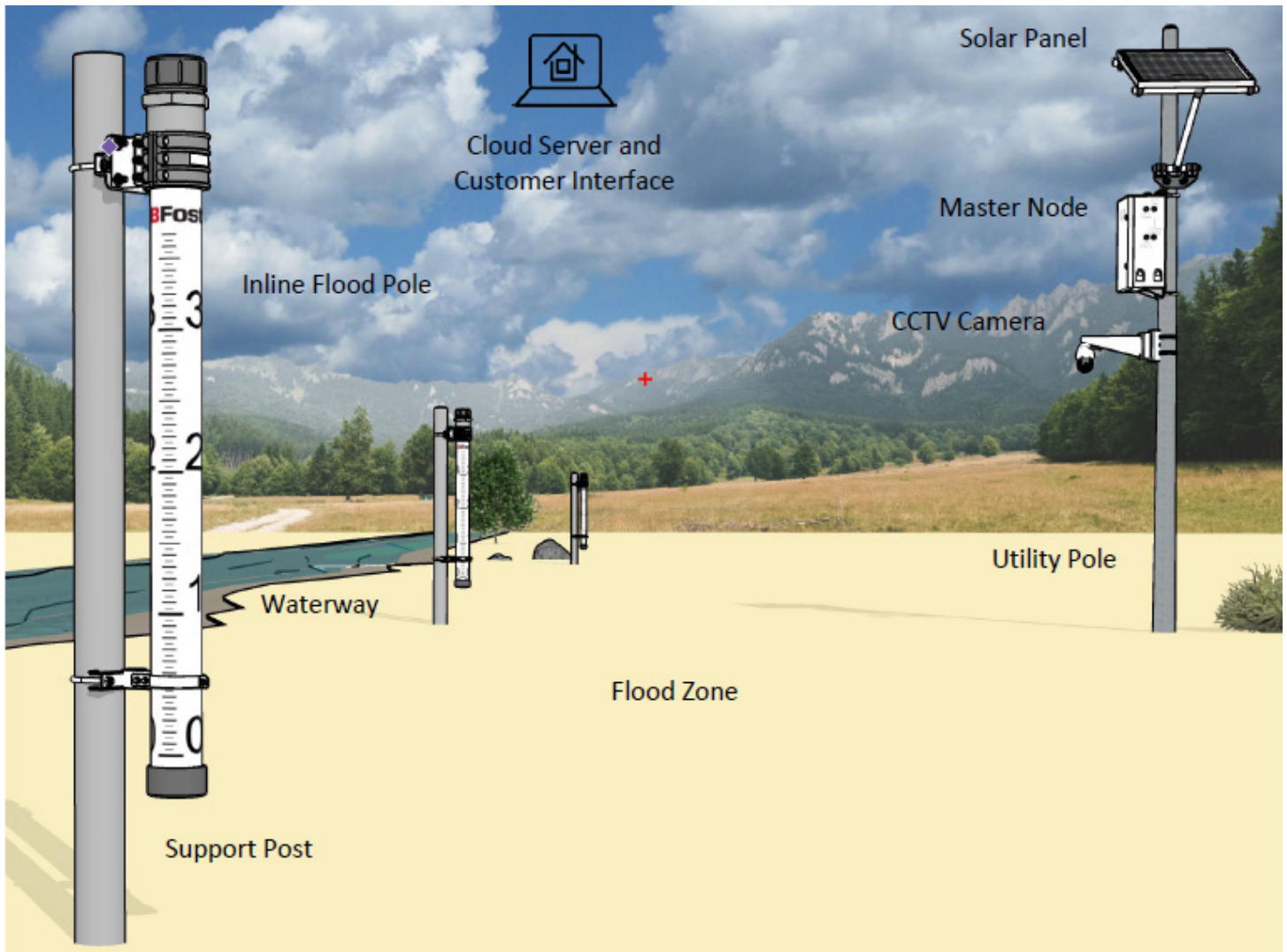


Figure above illustrates typical layout for flood monitoring

## System Operations

- > There are two flood alarm levels on the inline flood pole: Flood Water Warning and Flood Water Alarm.
- > Local relay outputs are tripped when water hits the Flood Water Warning level at base of the pole, and again at the user adjustable Flood Water Alarm Point.
- > The operational status of the Flood Monitoring System is monitored locally by the Master Node. If it does not receive adequate pole data or communications from the base station it will trip the integrated health relay.
- > When equipped with an outbound network connection and CCTV camera, the system will operate as follows:
  - > If water is detected at the Flood Water Warning Point at the base of the pole, the system will send a Flood Water Warning email to the nominated operation staff member. This will include photos of the pole that initiated the warning.
  - > If the water level reaches the Flood Water Alarm Point (digitally adjustable depth level) on the main flood sensor, the system will send a Flood Water Alarm to the nominated operation staff member by email. This will include photos of the pole that initiated the alarm.
  - > The operational status of the Flood Monitoring System is monitored by the cloud server. If it does not receive adequate pole data or communications from the base station, it will send a Condition Status Alert to the nomination operation staff member by email.



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