Concrete Dam Flood Monitoring

Interface Mini™

Industry: Infrastructure

Summary

Customer Challenge

A customer wants to monitor and be notified if a concrete dam has reached high flooding levels.

Interface Solution

Interface's WMC Miniature Sealed Stainless Steel Load Cells with multiple WTS-AM-1E Wireless Acquisition Modules connected to them, are small in size and perfect for measuring tension and compression. Multiple WMC's can be installed around the arch of the dam, so when flooding occurs, the WMC can transmit data and notify the customer through one of our Wireless Telemetry Systems.

Results

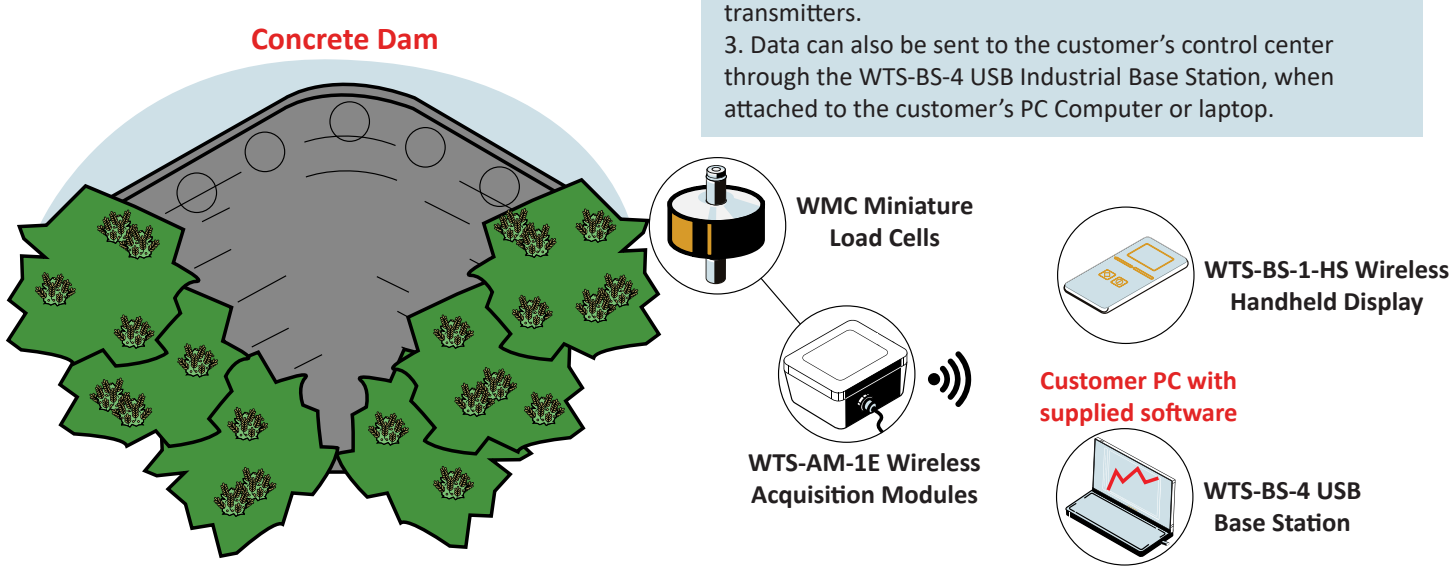
The customer was notified wirelessly when flood level became too high for the dam in their control center.

Materials

- WMC Miniature Sealed Stainless Steel Load Cells
- WTS-AM-1E Wireless Acquisition Modules
- WTS-BS-4 USB Industrial Base Station
- WTS-BS-1-HS Wireless Handheld Display for Single Transmitters
- Customer PC Computer or Laptop

How It Works

1. Multiple WMC Miniature Sealed Stainless Steel Load Cells with multiple WTS-AM-1E Wireless Acquisition Modules connected to them, are anchored to the concrete dam at the maximum height preferred.
2. If flooding occurs, the force from the water triggers the WMC's, and data is transmitted wirelessly to the customer's WTS-BS-1-HS Wireless Handheld Display for single transmitters.
3. Data can also be sent to the customer's control center through the WTS-BS-4 USB Industrial Base Station, when attached to the customer's PC Computer or laptop.



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