



Remote Bridge Controls

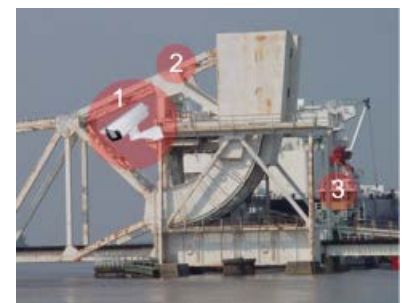
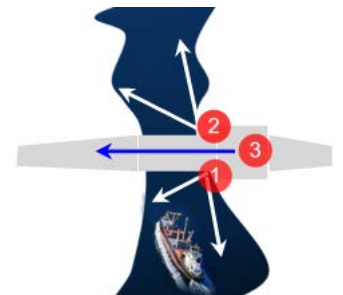
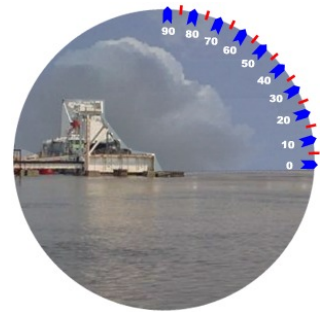
Automatic state-of-the-art rail bridge control

duostech Remote Bridge Controls provide complete control of drawbridges from remote locations. Our state-of-the-art system greatly decreases vulnerability and eliminates the need for on-site personnel.

Utilizing Remote Bridge Controls allows for many improvements including the consolidation of bridge tender operations. Cutting-edge intrusion detection keeps the bridge safe from suspicious persons, explosives, nuclear and hazardous materials and chemical/biological agents.

How it works:

- Intelligent video, radar, sonar, and audio technologies as well as redundant Programmable Logic Controllers (PLCs), and a Safety PLC are incorporated for the most holistic approach.
- Intruders and suspicious objects left behind (or removed) within a user defined video security zone atop the bridge are automatically detected.
- The bridge control system raises and lowers the bridge by means of controlling all discrete devices and commands motor operations using Variable Frequency Drive (VFD), a permissive function, whereby the bridge cannot be raised unless permission is granted from the signaling department.
- All river traffic to, from, and under the bridge is monitored by video to visually verify bridge conditions before and during lift or lowering operations. In addition, the system transmits audio data to the RCT for determining river traffic and other audio events.
- A marine grade radar system detects boat traffic. Seismographic sensors provide bridge impact detection.
- Events are automatically digitally recorded, time stamped, and stored for later retrieval. A powerful video search engine allows for easy retrieval of stored video files.



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We use state-of-the-art Safety PLC systems for our Remote Bridge Controls. These systems bring the benefits of traditional PLC systems to complex safety applications, replacing the hard-wired relay systems normally required to bring automated processes to a safe state.

Safety PLCs allow standard and safety-related programs to reside in a single controller chassis, providing flexibility in programming as well as a familiar and easy-to-use environment for programmers.

Duos Technologies Inc. provides a broad range of sophisticated intelligent technology solutions with an emphasis on mission critical applications. We combine an innovative business philosophy with a focus on customer service. Our specialty is the development and delivery of customized turnkey solutions for rail centric critical infrastructure systems.

All products, systems and solutions are backed by a 24 x 7 x 365 global training, maintenance and service program.

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