

Application for the Web-IO Digital:

## Control

### Remote control of a model crane directly from the browser



#### Definition of tasks

The application outlined here is a project work of one of our trainees. The main focus dealt with a feasibility study in which it was to be determined which bandwidth a DSL connection must have in order to transmit the pictures of a Web camera.

The observation object to be shown was a model-construction crane operable via the browser. Our application example deals exclusively with the control of the crane.

#### The solution

The crane has control electronics which actuate the swivel-up and swivel-down operations, the cable pull and the rotation of the crane. The outputs of a Web-IO were connected with the control electronic hardware of the crane.

For the functions of the Web-IO, a webpage was programmed which renders the crane operable via buttons and displays the live picture of the web-cam.

The whole thing was placed on the Internet via a DSL connection.

#### The details

<p>1. The digital outputs of a Web-IO were connected with the control electronic hardware of the crane.</p>	
<p>2. The Web-IO was plugged into a free Ethernet port and connected to a power supply.</p>	
<p>3. The Web-IO was assigned an IP address.</p>	
<p>5. The webpage was made accessible on the Internet via DSL.</p>	

What was realized here on a small scale naturally also works on a large scale.

#### Further practical examples:

**Sending alarms and monitoring**

- [Sending a text message or an e-mail if a pipe fracture occurs](#)
- [SNMP trap if a power failure occurs in the server room](#)

**Bridging distances**

- [Tunneling signals of an alarm system through the network](#)

**Recording**

- [Registering the running times and material usage of a CNC machine](#)

**Display**

- [Checking and display of tank filling levels and conveyor belt jams](#)



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