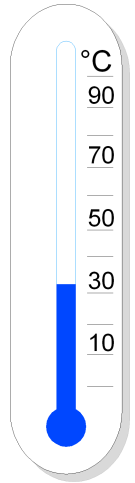


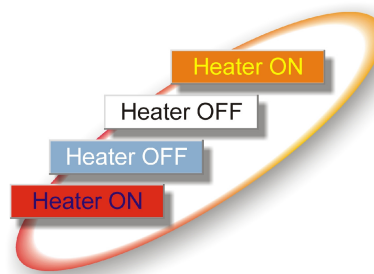
JAVA TOOLBOX

Real Time Data Visualisation for Embedded Web Servers

To visualise abstract data in a readable format there are many possibilities for web pages today. Using HTML code and images a web designer is able to build a good looking and easy to use Man Machine Interface (MMI) in a short time. To support the web designer sevenstax presents the JAVA TOOLBOX - a communication interface for the embedded device and several JAVA applets to run in the users web browser simultaneously. The applets extend conventional web pages, e.g. for real-time data visualisation and user interaction.



The sevenstax JAVA TOOLBOX makes web browser based user interfaces highly dynamic and much more interactive than traditional web page solutions. With a small piece of code at the server side and the sevenstax JAVA TOOLBOX applets multiple data streams can be established simultaneously. In return user input will be transferred back. For example if a slider is moved at the web page the new state will be transferred to the server or embedded device immediately. The updated data can be transferred to a bar display or other applet and will be displayed at the moment.



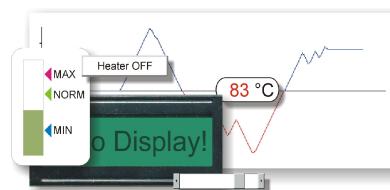
Any applet can be configured

Characteristics:

- real time data visualisation
- fast TCP data transfer
- minimum band width usage
- multiple data streams at the same time possible
- a data stream can be directed to several applets at the same time
- minimised protocol overhead – all JAVA TOOLBOX applets are sharing one TCP connection for data transfer
- portability of embedded API – written in ANSI C

Possible Elements:

- buttons, sliders, text input fields
- text displays, numeric displays
- bar displays, recorder/diagram displays and much more



Build your own unique instruments

Memory & System Requirements:

ROM: **25 to 70 kbytes** for embedded API code and applet storage – depends on used applets

RAM: **300 bytes** for buffers and variables

TCP stack to listen for an incoming connection and capable of immediate (push flag set) data transfer

PC web browser capable of running JAVA applets (JAVA 1.1 or higher) e.g. MS Internet Explorer, Mozilla, Netscape, Opera.

What you get:

- source code of embedded API implementation
- detailed API documentation
- sample code
- manual for the web designer

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