



## Web-Visualization

## SCADA-Server on Raspberry Pi

### HTML5-based web HMIs on Raspberry Pi!

The SpiderControl™ SCADA server on Raspberry Pi combines the world of the PLC with a extensive SCADA system functionality. The SCADA server is connected to the Soft-PLC Logi.cals, which features a complete IEC61131 programming. Extensive HTML5 based visualization can be implemented on the one hand with the Spider PC HMI Editor; on the other hand, the innovative browser-based Spider Web-HMI Editor is integrated on the platform. Users can thus directly develop a Web HMI using nothing more than a standard browser and easily display variables from the IEC61131 code of the Soft PLC.

### A platform for innovative automation concepts offers enormous advantages:

By combining all these components, the user gets an extensive kit for the realization of IoT and I4.0:

- Extensive HTML5 HMI can be expanded or customized with user-customizable dashboards: The Web HMI Editor makes it possible.
- The SCADA server makes the connection to the PLC world using standard protocols such as Modbus TCP, ISO-TCP (Simatic) or OPC. HTTP based protocols allow the integration of SQL databases via a local Apache web server and PHP scripts.
- The Logi.cals Soft PLC takes over local control tasks, etc.

# PLAIN AND SIMPLE CODE WITH YOUR APP OR BROWSER

## Spider Web-HMI Editor

All you need to develop a web HMI is a web browser from SpiderControl™!

The web HMI editor is integrated in the SpiderControl™ Web-server and connects to the Logi.cals PLC on the Raspberry Pi. This tool is optimized for ease of use. Designing a web HMI has never been easier than today!

The advantages are obvious: tablets or smartphones can now be used for worldwide programming. It does not matter which operating system is used, because the HTML5-based tool UI runs on Linux, Mac OS or other platforms. In addition, no further software installation on the PC is necessary. This consistently excludes incorrect, obsolete software versions and resulting error sources. Everything that is needed is stored locally on the embedded system.

## Spider PC-based HMI-Editor

If you want to develop sophisticated industrial HMIs with all modern functionalities, the PC-based HMI editor is the right choice. This HMI editor is often used as an OEM version of well-known PLC manufacturers or directly under the brand name SpiderControl™ worldwide. It offers a variety of powerful features.

## Spider Web-Server

The base Web-server contains the Web HMI editor and connects to the local Logi.cals PLC. This can also be programmed from the PC editor.

## Spider SCADA-Server

The SCADA server can be programmed with a PC-based editor and offers various, integrated drivers for connection to external PLCs via fieldbus protocols. It offers a simple implementation of SCADA functions, e.g. historical trend and alarm logs, database connections and much more.

