PAGE|LAB

AXEL

SOFTWARE SOLUTIONS FOR THE INDUSTRIAL AUTOMATION

An Italian project

PAGE|LAB

An HMI system suitable for any platform

PageLab has been designed for developing human-machine interfaces on **any kind of industrial hardware**, from systems equipped with simple alphanumeric LCD displays to platforms endowed with high resolution color displays. PageLab comes with a **lightweight run-time**, which makes an **exceptionally reduced use of hardware resources** and it can work together with both advanced operating systems, such as Windows and Linux, and much simpler software environments without any operating system.

The highest efficiency for the most demanding applications

Unlike the most common HMI systems available on the market, rendering of the graphic user interface is achieved by PageLab through **translation of the design into machine code**.
The availability of code directly executable from the microprocessor allows to obtain **extremely reactive HMI applications**, even on less powerful systems.

One tool for the whole range of products

Being able to execute HMI applications on any system gives your Company the chance to supply PageLab as the **single programming tool** for a whole set of products. In this way the adoption of further elements becomes cheaper for your Customers, as they will be able to work with a tool they already know and **reuse the applications** which were written for the products they previously purchased.

The integration in a homogeneous software suite covering all the automation needs

PageLab smoothly integrates with other Axel products, including a PLC IEC 61131-3 development environment (LogicLab), device and network configuration tools, an emulator (SimuLab), and a Soft PLC execution environment (LLExec), providing a **comprehensive software suite** able to meet the most challenging requirements of your automation system.

From simple to the most complex visualization.
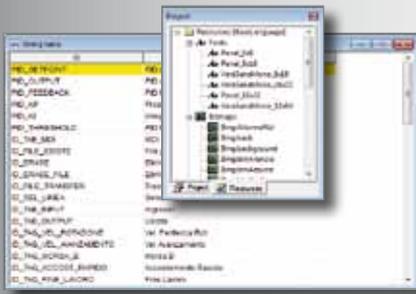
Languages support

Translations in as many languages as you need are supported.
Character strings are encoded according to the Unicode standard, in order to manage extended alphabets. Several fonts are available in a single application.

Controls

The most common user interface controls (edit-boxes, buttons, bitmap images, combo-boxes etc.) and several advanced controls (animations, diagrams, trends, histograms) are available.
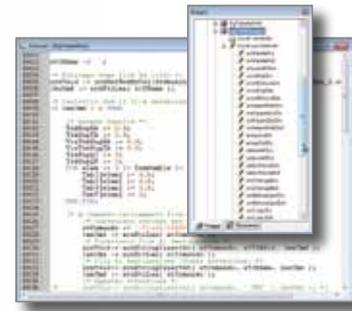
Scripting

Control and management of user events generated through the graphic interface (both pages and controls) by means of a powerful scripting language, that complies with IEC 61131-3 Structured Text. Among the tools the developer can work with, there are variables, functions, control properties and event-handlers.
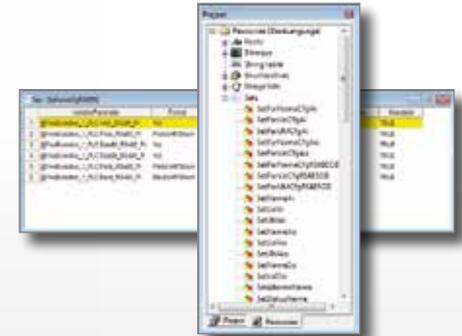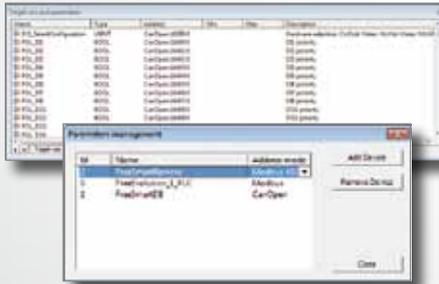
PLC variables

Representation and interaction with the variables of PLC applications currently executing on the system.
Direct interface with LogicLab PLC development environment for sharing the definitions. Possibility to create variables in the HMI system, both local to the pages and shared by the whole application.

Remote access

Binding of graphic controls to variables of remote systems connected through field buses.
Management of concurrent connection of several remote systems by means of different kinds of field buses.

Recipes and data logging

Definition of system/application settings as sets of heterogeneous data, to be stored to/load from the file system.
Data logging function for non-stop acquisition of the values of several variables and relative saving.
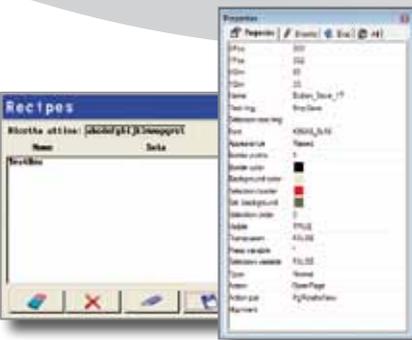
Components and templates

Definition of custom graphic elements by means of composition of several basic controls and relative scripting functions.
A similar feature is available for defining templates.
Reuse of custom elements and templates by means of libraries.

Simulator

It allows to execute accurately the whole HMI application on the developer's PC. It can be extended with standard Windows DLLs and it can be graphically customized in order to reproduce the behaviour of the actual system. It can execute concurrently also PLC applications developed with LogicLab.

For further information

In the download area of our Web site you can freely download the latest PageLab release. You can either open and edit sample projects or create a new one from scratch; in both cases, you can immediately verify your design thanks to the embedded simulator.
➔ **www.axelsw.it/download**

For further information about PageLab and its features, about porting PageLab on your product, whether it is an industrial PC or a self-manufactured embedded system, we invite you to download the relative documentation from our Web site.
➔ **www.axelsw.it/pagelab**

For any other information about PageLab, please contact us directly by phone or by e-mail .
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