HMI/SCADA

PROCON-WEB

Highly scalable web-based HMI/SCADA solution

Weidmüller
GTI Software

Simple. Intuitive. Flexible.
PROCON-WEB

Far more than visualisation software – from HMI applications in mechanical engineering to complex SCADA solutions in the process industry.

The innovative HMI is the ideal interface between humans and machines. It is tailored to user requirements and harnesses the possibilities offered by modern technologies. A web browser is all you need to operate and monitor a single machine or a complex production process. This allows the highest UI and UX requirements to be implemented. From project planning software and machine-oriented visualisation to complex SCADA solutions in the process industry – Weidmüller GTI Software offers industrial software solutions that provide optimum support for your application.

PROCON-WEB Designer
for the design of your individual HMI

PROCON-WEB Server
for managing data and communication for the entire automation environment

PROCON-WEB Client
as a modern and dynamic user interface for any HTML5 browser

Your benefits at a glance

Our HMI and SCADA solutions offer you a wide range of benefits. Take advantage of our extensive range of communication drivers, including OPC and OPC-UA, or open interfaces for integration into IT and web technologies such as HTML5, JavaScript and CSS3. This means that any web-enabled device can become a potential human-machine interface.

Enjoy our intuitive user interface, which offers a modern look and feel thanks to animatable dynamic features and gesture controls. Whether you need an HMI application or a SCADA solution, we support you every step of the way.

Modular design

The modular design of our HMI software and SCADA systems allows for application-specific scaling of functionality.

Scalability

Thanks to complex solutions, quantity structures can be adapted to the specific task at hand.

Intuitive user interface

Our software creates a modern look and feel through animatable dynamic effects and gesture controls.

Adaptive design

With the help of adaptive UX design, our software offers support for device-specific interfaces.

All control systems

Benefit from our extensive range of communication drivers, including OPC and OPC-UA, and customised interfaces.

Multilingualism

Available in multiple languages (Unicode) and country-specific keyboard layouts. You also have the option to switch between languages while taking time formats into account.

Efficient engineering

With PROCON-WEB Designer, you can configure and parameterise your HMI without any programming knowledge.

Style guide

Enables centralised management of styles for all objects and system dialogues, allowing the interface to be implemented entirely in line with your corporate design.

Branding

We enable the integration of customer-specific UX designs and the respective customer branding.

PROCON-WEB Designer

Project planning tool for your customised HMI

Style guide
Integrated style guide for central configuration of your specific UX design

Controls
Wide range of customisable controls and integration of your objects as custom controls that can be adapted to your corporate design

Layout container concept
Design your modular user interface flexibly with the support of our various navigation concepts

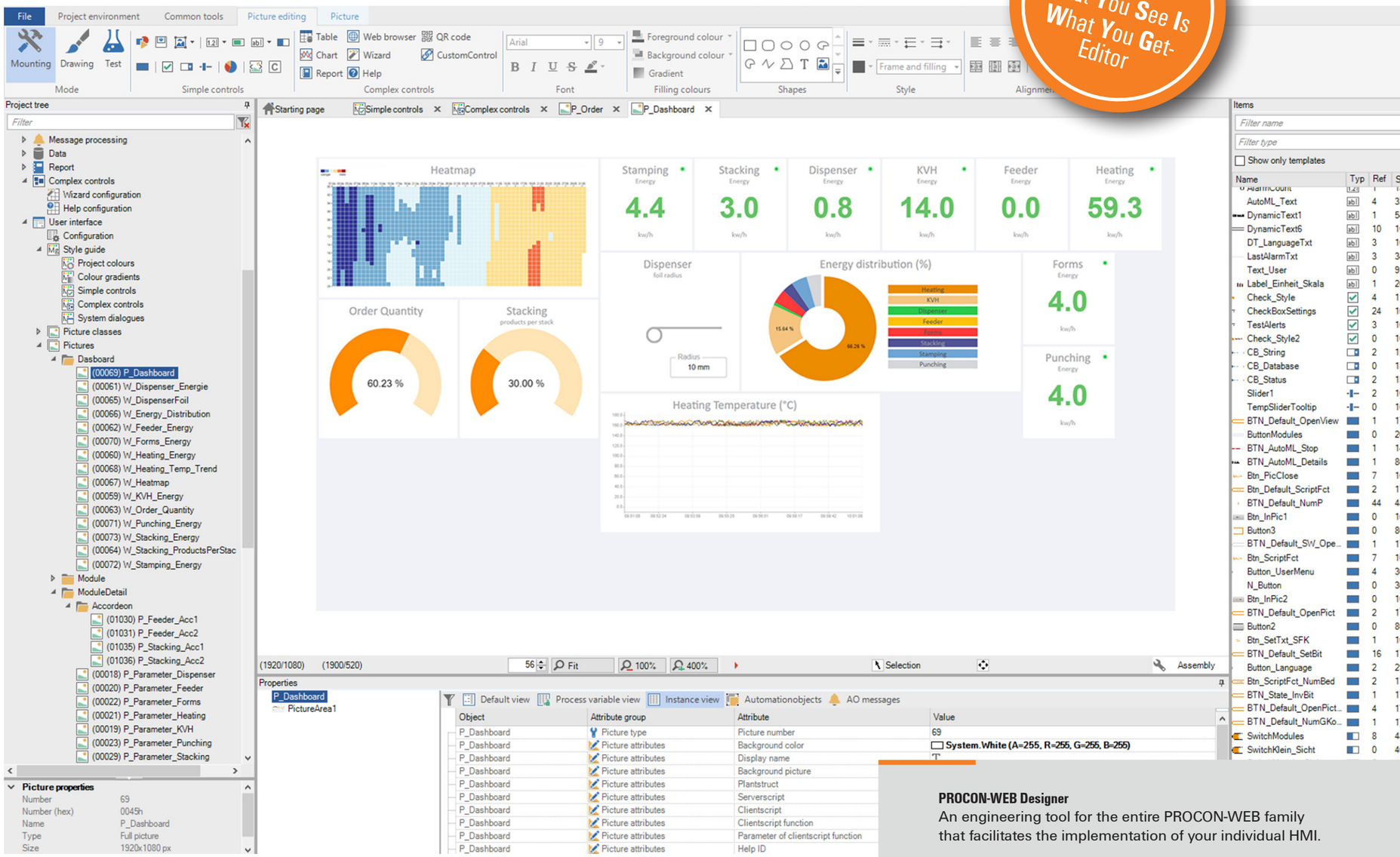
Maximum flexibility
Take advantage of preconfigured dynamic features, use our FreeValues for more complex logic, or utilise our client- and server-side scripting

Configure instead of programme
Simple engineering using the Designer tool, without web or programming knowledge

Drag & Drop
Controls can be easily placed on the user interface or arranged in the same grid using containers

Class instance concept
Create reusable classes for your controls and change individual properties centrally with a single click

Automated project creation
Multiple interfaces for editing project data in other tools or for automatic project creation via XML import



PROCON-WEB Designer
An engineering tool for the entire PROCON-WEB family that facilitates the implementation of your individual HMI.

With our visualisation software, we not only offer a solution that can be used on any end device, but also enable the implementation of your specific UX design.

PROCON-WEB

The scalable web HMI and SCADA solution with flexible runtime

PROCON-WEB simplifies the design of modern multi-touch user interfaces for automation. The integrated web server allows the use of all HTML5-enabled browsers without special plug-ins. The extensive portfolio of communication drivers facilitates connection to all common control systems. Standardised open interfaces guarantee smooth integration into any IT & OT environment.

PROCON-WEB is a highly customisable visualisation software that is scalable from simple machine HMIs to complex SCADA systems for large plants. It offers extensive functions for machine operation, data recording and analysis, and visualisation that are specially tailored to the needs of future-proof applications. A comprehensive portfolio of communication drivers and the use of widely used standards such as OPC-UA enable seamless integration into your application. The PROCON-WEB product portfolio supports Windows as well as Linux operating systems and can also be used as a Docker container.

Intuitive HMI

PROCON-WEB uses open standards and modern web technology, enabling the implementation of intuitive user interfaces that meet the highest UI/UX requirements.

Open standards and interfaces

Thanks to its extensive driver portfolio, PROCON-WEB can be easily integrated into your applications. By using standards such as OPC-UA or MQTT, machine data can be made available to other services.

Easy scalability

From simple HMI applications to complex SCADA applications, PROCON-WEB is flexibly scalable.

Your particular benefits:

- Web HMI that can be easily used from a wide variety of devices via a browser
- With the help of adaptive UX design, our software offers support for device-specific interfaces
- Integration of your own controls as custom controls
- Use of secure standards such as HTTPS or OAUTH2 for the secure operation of your machine

Features

Predefined controls and advanced controls

Flexible messaging system including email and SMS forwarding

Multilingual support with integrated language and dictionary function

Internal scripting to solve complex and diverse tasks

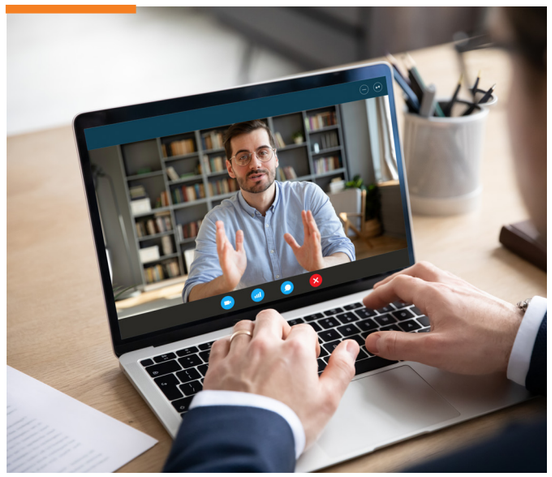
Gesture control Swipe, scroll or zoom

Dashboards and chart profiles that can be customised during runtime

Your solution. Our experience.

Customised HMI concepts for machines and systems

Whether you need a single machine or a complex production line, our application experts will support you from the initial idea to the finished solution. With PROCON-WEB, you get a powerful HMI/SCADA platform that we tailor precisely to your requirements.



Our range of services:

- **Consulting & planning** – Targeted support for the implementation of your software projects
- **Concept development & requirements management** – Together we develop future-proof operating concepts
- **Customising** – Tailor-made adaptation of our software to your processes and specifications
- **Project management** – Efficient project management by experienced specialists
- **Training** – Practical training courses for developers, users and maintenance personnel
- **Technical support** – Fast and direct help with technical questions during operation
- **After-sales-service** – Long-term support, updates and optimisation of your solution

With us, you can rely on a partner who speaks your language – technically, reliably and practically.

Easily migrate HMI solutions to web technology

Powerful touch panels with web HMI

With our web-enabled visualisation solution PROCON-WEB Embedded System in combination with the robust u-view web panels, we offer you the perfect solution from a single source. The flexible HMI solutions are compatible with controllers from different manufacturers. The implementation of your UI/UX is made easy with the support of our experts.

u-view advanced touch panels

Robust: Perfectly suited for industrial environments thanks to robust industrial housing with IP66 protection rating

Intuitive: Thanks to modern touch technology, operation is just as intuitive as on mobile devices

Multi-touch capable: e.g. support for gesture recognition

Different display sizes: 7', 10.1', 15.6' and 21.5'

PROCON-WEB
Technical information

Supported operating systems and virtualisations

PROCON-WEB SCADA

Designer and Runtime OS Requirements

Windows 11 Pro
Windows 10 Pro

Windows 10 Enterprise
Windows 10 IoT Enterprise

Windows Server 2016
Windows Server 2019
Windows Server 2022

PROCON-WEB ES

Runtime requirements

PROCON-WEB ES allows deployment as a Docker container. This means that all operating systems that support Docker and are based on an AMD64 or ARM32 CPU architecture are compatible.

PROCON-WEB

Virtualisation tools

VMware ESXi 6.5 or higher
VMware Workstation 16.1 or higher
VMware Player 16.1 or higher
MS Hyper-V Server 2016 or higher

Supported browsers for displaying the HMI

OS (Client)	Browser (latest version)
Microsoft Windows	Google Chrome (recommended) Mozilla Firefox Microsoft Edge Chromium
Android	Google Chrome (recommended) Mozilla Firefox Microsoft Edge Chromium
iOS, Mac	Safari Google Chrome

Minimum hardware requirements for server and client

PROCON-WEB Embedded Systems	PROCON-WEB SCADA	Clients for both variants
Processor: Dual Core ARM Cortex A9, 624 MHz	**Processor:** Quad Core (Intel or AMD), 2,5GHz	**Processor:** Quad Core (Intel or AMD), 2,5GHz
RAM: 512 MB	**RAM:** 8 GB	**RAM:** 8 GB
Hard disk space: 200 MB	**Hard disk space:** 1,5 GB	HTML5-compatible browser in the latest version

The information refers to simple HMI projects without the use of data logger functionality.

Communication drivers PROCON-WEB SCADA

Designation	Functionality
3S PLC-Handler	Codesys Soft PLC, Wago 750-8xx (various), Schneider PacDrive Controller, Berghof, etc..
Allen Bradley	Connection to ControlLogix and CompactLogix controllers from Rockwell Allen-Bradley
Barcode Scanner	Receipt of a byte stream via serial interface
Beckhoff Symbol	TwinCAT PLC via ADS-Schnittstelle
Beckhoff TWINCAT	TwinCAT PLC via ADS-Schnittstelle
Codesys	Communication with Codesys runtimes
DOMINO TCP	Communication with DOMINO printer server
Ethernet/IP	Rockwell (Allen Bradley) RS Logix, etc.
IEC608701	Telecontrol driver via the IEC-60870-5-104 telecontrol protocol via Ethernet
Legic	Receipt of TCP/IP byte streams from Legic transponders
MBus	Reading of MBus-compatible devices
Mitsubishi Melsec	Ethernet-based driver for Melsec A and Q types
MODBUS	Connection to controllers, I/O modules via the ModbusOnTCP or Modbus RTU protocol (further development of the Modbus-RTU and Modbus-TCP drivers)
MODBUS-RTU	Beckhoff, Wago, JUMO dTron, DYNISCO UPR700, ...
MODBUS-TCP	Wago System 750, Beckhoff, ...
OPC-Client	Support for all OPC servers, such as KepWare or Matricon (LON, EIB, BACnet, etc.) with DA functionality
OPC-UA-Client	Support for all OPC UA servers with DA functionality
OPC-UA V2	Support for all OPC UA servers with DA functionality (further development of OPC UA client)
ResMa	Reading of measuring points from ResMa systems
SAIA Block	Ethernet-based driver for SAIA controllers
SAIA PCD	Ethernet-based driver for SAIA controllers
Siemens S5/S7 TCP/IP	Simatic S5/S7 Steuerungen (RFC1002 and RFC 1006)
Simotion OAMIIF	Siemens Simotion controllers via TCP/IP
TIA-Portal	Communication with Siemens S7-1200/S7-1500 PLCs with symbolic variable addressing. (Support for optimised blocks)
Universal driver	Communication via serial interface or Ethernet with limited programmability (e.g. scale coupling)

Communication drivers PROCON-WEB ES

Designation	Functionality
Allen Bradley	Connection to ControlLogix and CompactLogix controllers from Rockwell Allen-Bradley
Codesys	Communication with Codesys runtimes
Modbus	Connection to controllers and I/O modules via the ModbusOnTCP or Modbus RTU protocol (further development of the Modbus-RTU and Modbus-TCP drivers)
OPC-UA V2	Support for all OPC-UA servers with DA functionality
TIA-Portal	Communication with Siemens S7-1200/S7-1500 PLCs with symbolic variable addressing. (Support for optimised blocks)

Weidmüller – Your partner for smart industrial connectivity

As experienced experts, we support our customers and partners around the world with products, solutions and services in the industrial environment of energy, signals and data. We are at home in your industries and markets and know the technological challenges of tomorrow. That is why we continuously develop innovative, sustainable and beneficial solutions for your individual needs. Together, we set standards in smart industrial connectivity.

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