sbc
SAIA BURGESS CONTROLS

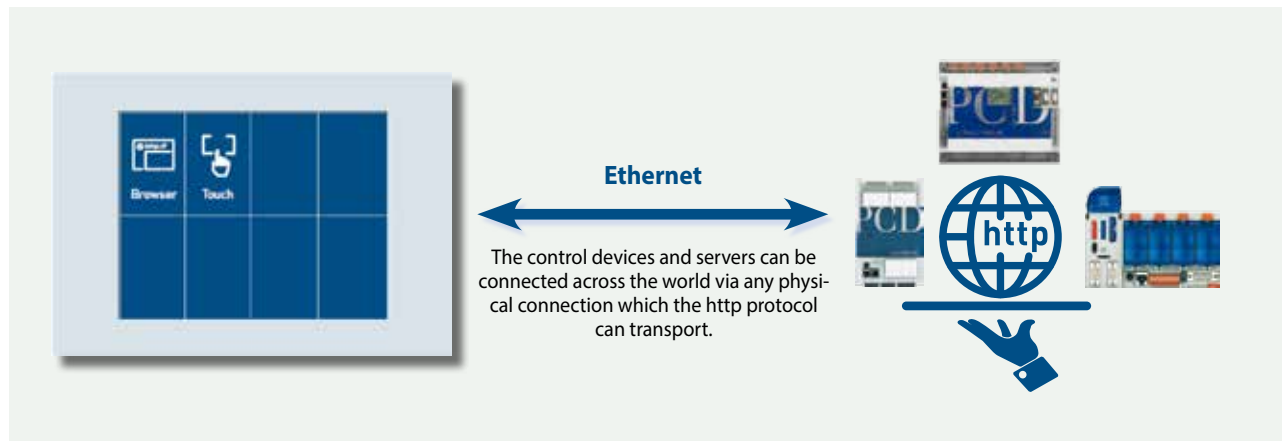# Saia® PCD7D system
Web Panel MB std.

Malthe Winje
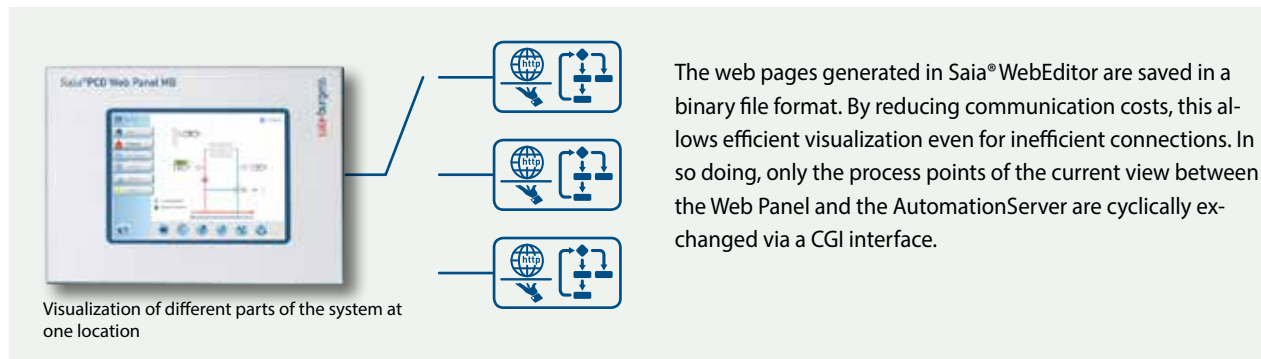
08-594 118 30   www.mwa.se   info@mwa.se

2.2 **Saia® Web Panel MB** | Web technology

Combination of openness, world standards and universality

A system for operation/monitoring with web technology consists of essentially just two functional elements: a web server and a browser. The protocol linking them is http. These two functional elements can be combined in the same automation device or can be located on opposite sides of the globe.

Ethernet

The control devices and servers can be connected across the world via any physical connection which the http protocol can transport.

The operation/monitoring project is created once using Saia® WebEditor and saved to the associated web server.
Every browser can freely access any web server of the automation devices recognized in the network and run its Web-HMI application. A web server can handle multiple browsers at the same time. Web-HMI eliminates complex engineering, duplication of project expenses, software licensing problems and system breaks during operation/monitoring.

Visualization of different parts of the system at one location

The web pages generated in Saia® WebEditor are saved in a binary file format. By reducing communication costs, this allows efficient visualization even for inefficient connections. In so doing, only the process points of the current view between the Web Panel and the AutomationServer are cyclically exchanged via a CGI interface.
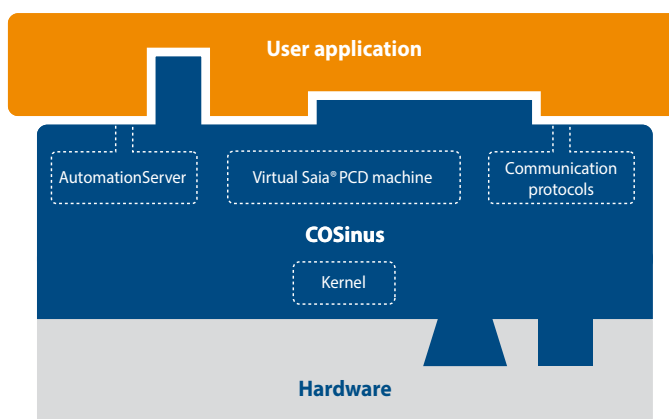
Saia® COSinus

Systems are often extended or fitted with new functions and must be maintained throughout their entire lifecycle. The Saia® COSinus operating system was specially developed from scratch in-house for use in automation environments. It is therefore possible to ensure the industrial lifecycle without being pushed by large market-influencing companies. The top priority for Saia® COSinus is reliable and continuous operation.
The Saia® Micro-Browser Panel series are essentially based precisely on this reliable system which has been expanded with the Micro-Browser application. This allows the visualization and operation of web projects which have been created with Saia® WebEditor. Here, the visualization project can be saved locally or on a remote server.

User application

AutomationServer

Virtual Saia® PCD machine

Communication protocols

COSinus

Kernel

Hardware

2.3 **Saia® Web Panel MB** | Standard devices

The Micro-Browser standard device series is the visualization and control interface for automations with Saia® PCD controllers. The panels – finished to industrial quality – are available in various sizes in order to deal with different requirements. Thanks to the internal memory, all devices enable data trending and alarm history in such a way that dynamic visualization can be implemented. An application saved in the controller can be displayed on the panel without any additional configuration tool.
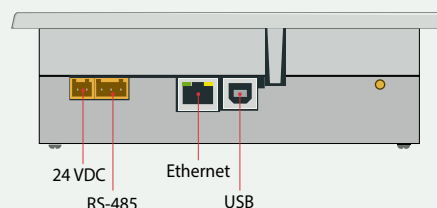
Webcode
scen13086

Main characteristics

▶ Large selection of display sizes, color TFT display, in VGA or SVGA resolution
▶ Fast and easy commissioning without additional applications with internal setup menu
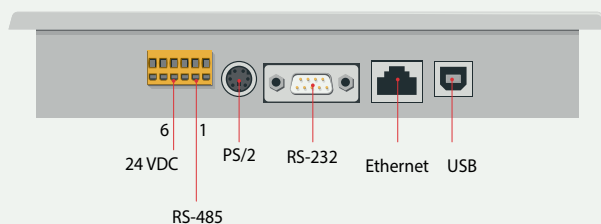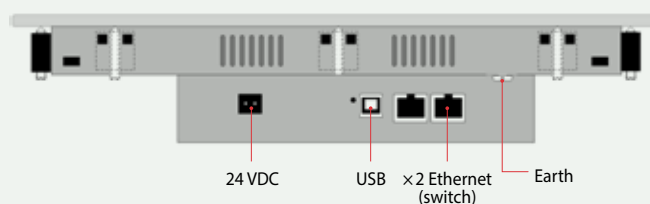▶ Connection to the web server via Ethernet

Equipment assembly

5 inch *)

24 VDC · RS-485 · Ethernet · USB

* In preparation, see chapter C2 Status

Unit Structure

5.7 inch / 10.4 inch

6 · 1
24 VDC · RS-485 · PS/2 · RS-232 · Ethernet · USB

12.1 inch

24 VDC · USB · ×2 Ethernet (switch) · Earth

EPLAN macros

EPLAN macros are available for project planning and engineering

Setup menu

The panel is configured in two stages via the Setup menu directly on the panel.
No additional software or a connection to a laptop is required for commissioning.
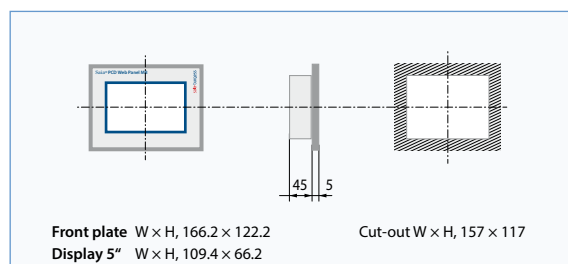
Stage 1: Network configuration

Setup	Network	Help
Enable DHCP		☐
TCP/IP Address	192.168.12.201	❯
Subnet mask	255.255.255.0	❯
Default gateway	0.0.0.0	❯
Primary DNS Server	0.0.0.0	❯
Secondary DNS Server	0.0.0.0	❯

Stage 2: Web server configuration

Connection List	Edit Connection	
Connection Name	conn_1.http	❯
Start Page	macro.html	❯
Remote host IP	192.168.12.200	❯
Remote port	80	❯

Dimensions (W × H × D) and cut-out (W × H) mm

PCD7.D450WTPF*)

Front plate W × H, 166.2 × 122.2	Cut-out W × H, 157 × 117
Display 5" W × H, 109.4 × 66.2	

45 5

PCD7.D410VTCF

Front plate W × H, 281 × 221	Cut-out W × H, 262 × 202
Display 10.4" W × H, 211 × 150	

56 6

PCD7.D457VTCF

Front plate W × H, 202 × 156	Cut-out W × H, 189 × 142
Display 5.7" W × H, 117 × 88	

42 6

PCD7.D412DTPF

Front plate W × H, 319 × 264	Cut-out W × H, 300 × 244
Display 12,1" W × H, 245 × 185	

60 6
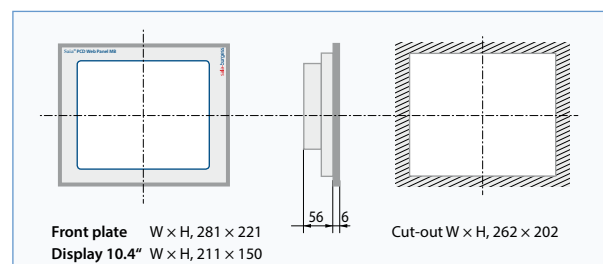
Saia® MB App

Operation and monitoring on iPhone, iPad and Android

General data

User interface

Operating system	Saia® COSinus with Micro-Browser expansion
Protection type (front)	IP 65
Temperature range	Operation: 0…50 °C, Storage: –20…+70°C
Humidity	Operation: 10…80 %, Storage: 10…98 %, non-condensing
Contrast adjustment	Yes
FTP server	Yes
Supply voltage	24 VDC ±20 %

Swiss made

Technical data	PCD7.D450WTPF*	PCD7.D457VTCF	PCD7.D410VTCF	PCD7.D412DTPF
Display size	5.0"TFT	5.7"TFT	10.4"TFT	12.1"TFT
Resolution (pixels)	WVGA 800×480	VGA 640×480	VGA 640×480	SVGA 800×600
Touch screen	Resistive touch screen	Resistive touch screen	Resistive touch screen	Resistive touch screen
Background lighting	LED	LED	LED	LED
Colors	65,536	65,536	65,536	65,536
On-board file system	128 MB	4 MB flash	4 MB flash	128 MB
Processor	240 MHz	66 MHz	66 MHz	240 MHz
Interfaces	RS-485, USB 1.1/2.0, Ethernet 10/100 M	RS-232, RS-485, USB 1.1, Ethernet 10/100 M	RS-232, RS-485, USB 1.1, Ethernet 10/100 M	USB 1.1/2.0, Ethernet 10/100 M
Current requirements	350 mA	approx. 500 mA	approx. 500 mA	approx. 600 mA
Real-time clock (RTC)	Yes (Super-Cap)	No	No	Yes (Super-Cap)

* In preparation, see chapter C2 Status

1 Automation stations

2 HMI Visualization and operating

3 Dedicated room controller

4 Consumption data acquisition

5 Cabinet components

2.6 **Accessories for Micro-Browser Panels**

**The right mounting kit for all Web-HMI devices**
The Micro-Browser Panel series not only fits in a switch cabinet but, using industrial in-wall and off-wall mounting kits, enables this modern technology to be easily and properly integrated into the area in close proximity to the user as well. The mounting kits therefore enable simple wall mounting, which is consistently available for all panels. This minimizes logistic and mounting costs.

5.7 inch

In-wall mounting	**On-wall mounting**
PCD7.D457-IWS2*)	PCD7.D457-OWS2*)
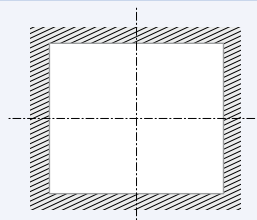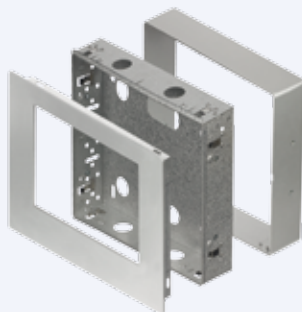
Cut-out	B × H, 270 × 211
Minimum depth	
For solid walls	75 mm
For cavity walls	65 mm

10.4 inch

In-wall mounting	**On-wall mounting**
PCD7.D410-IWS	PCD7.D410-OWS
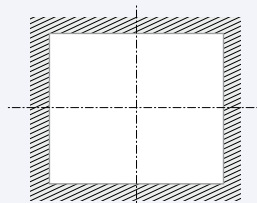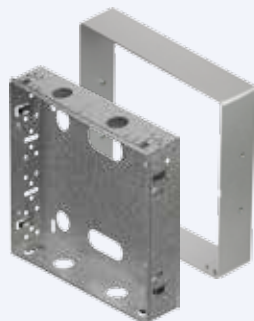
Cut-out	B × H, 270 × 211
Minimum depth	
For solid walls	75 mm
For cavity walls	65 mm

12.2 inch

In-wall mounting	**On-wall mounting**
PCD7.D412-IWS	PCD7.D412-OWS
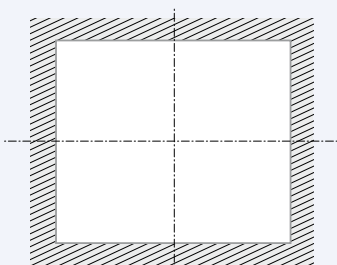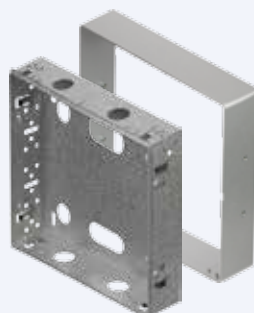
Cut-out	B × H, 309 × 245
Minimum depth	
For solid walls	75 mm
For cavity walls	65 mm

*In preparation, see chapter C2 «Product status»

On-wall mounting kit 5.7 inch

On-wall mounting
PCD7.D457-OWS

73,5 mm

266 mm

219 mm

Width: 266 mm
Height: 219 mm
Depth: 73.5 mm

Wall mounting kit 5.7 inch

PCD7.D457-OWS1

304 mm

75 mm

255 mm
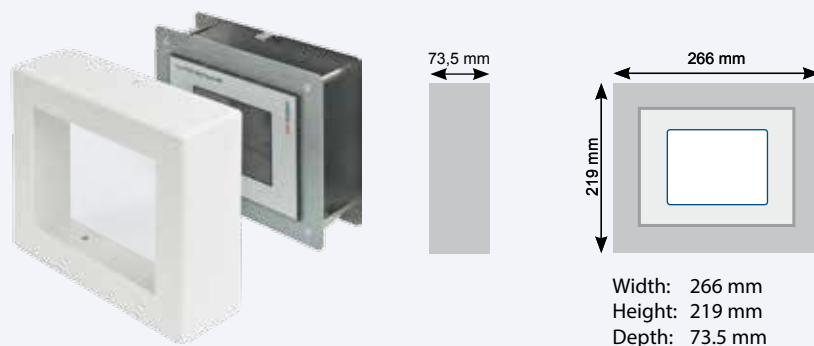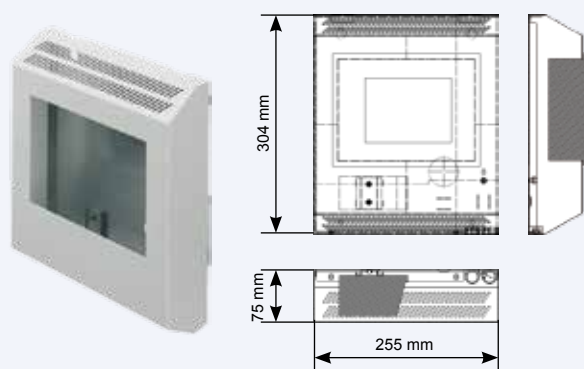
Energy Manager wall mounting set 5.7 inch

Q.OWS-7DET7F-1

The Energy Manager package includes

▸ Wall mounting kit 5.7 inch PCD7.D457-OWS1
▸ S-Energy Manager 5.7 inch PCD7.D457ET7F
▸ Power pack 24 VDC Q.PS-AD2-2402F

OEM or proprietary design

The standard 5.7 inch Micro-Browser Panel without a front panel offers room for individual creativity. Whether it's for modern rooms or rustic spaces with customer-specific front screens designed in aluminum, black or wood, this modern technology can be easily and unobtrusively integrated into a sophisticated space.

+
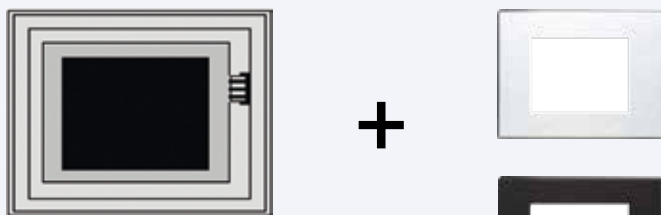
Panel with aluminum front: PCD7.D457VTCZ33
Panel with black front: PCD7.D457VTCZ35
Panel with mirror-effect front: PCD7.D457VTCZ36
Panel with neutral film: PCD7.D457VTCZ11

Video
In-wall mounting
Webcode scen13093a

Video
On-wall mounting
Webcode scen13093b

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