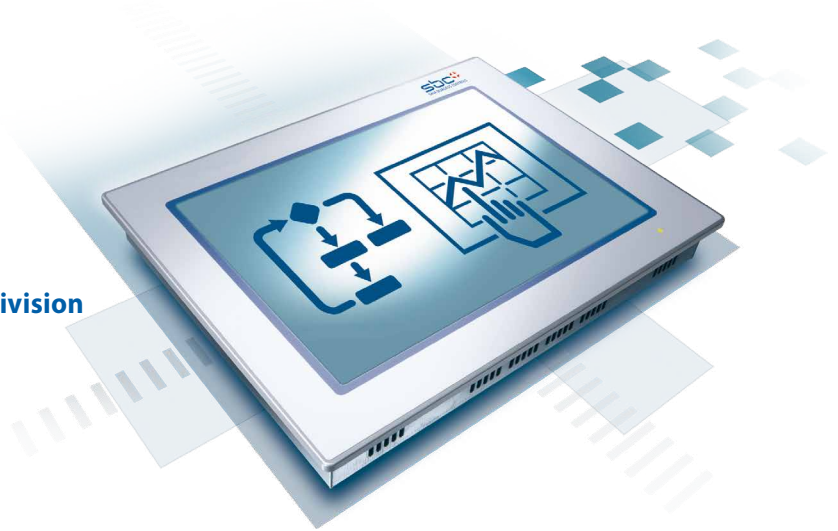**sbc+**
SAIA BURGESS CONTROLS

12.1" TFT/SVGA Saia Programmable Web-Panel MB Saia PCD7.D412DT5F
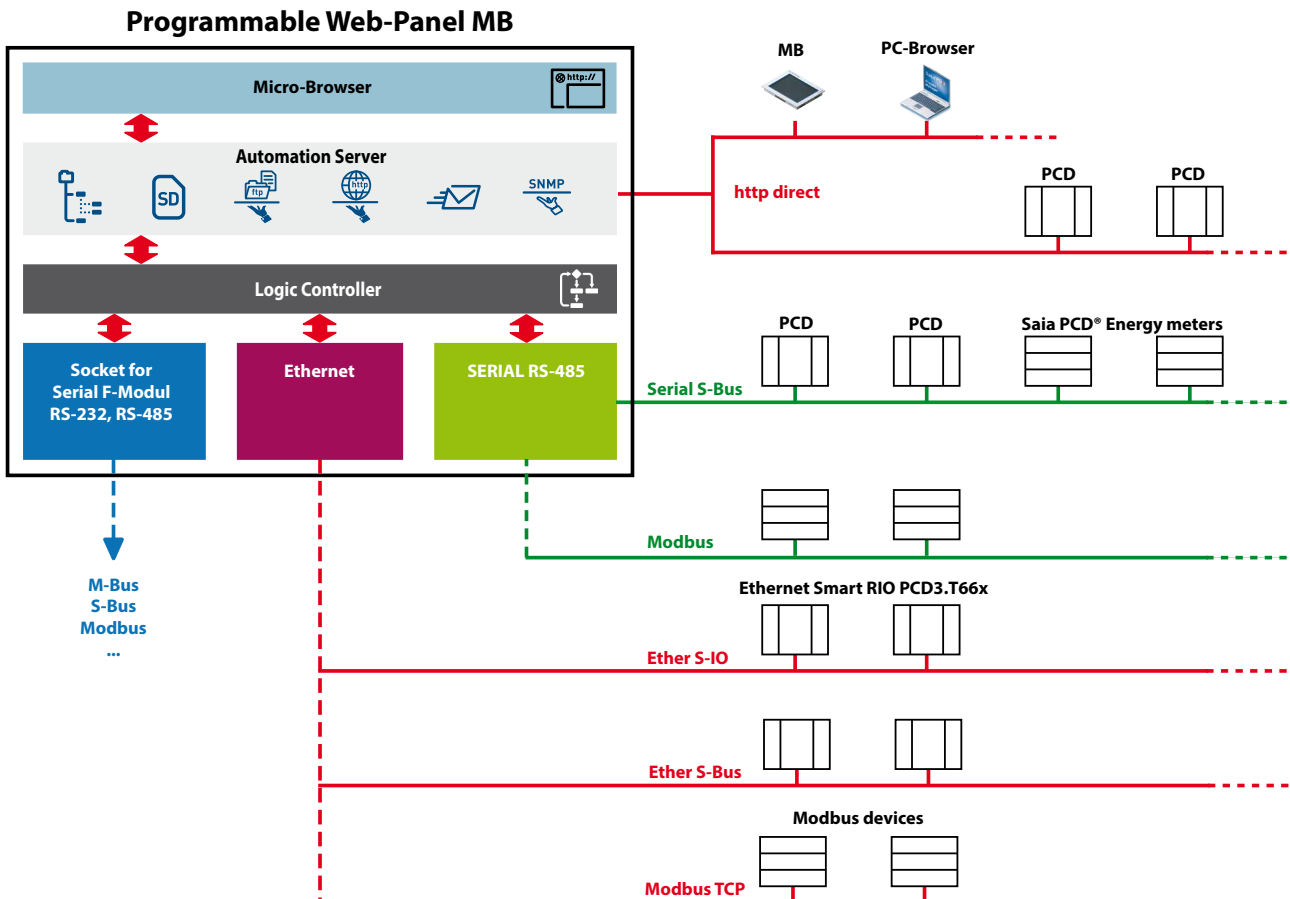
Controls Division

The new product type combines a Web-Panel and an Automation Server as well as control and management functions in one device. The integrated logic controller can be programmed with the software tool Saia PG5® to perform simple control applications or complex HMI functions.

With the integrated Automation Server, the large storage resources and multiple communication possibilities, this panel fits perfect as a management station and data concentrator.

The 12" programmable Web Panel MB has a high-quality TFT color display with a SVGA resolution (800 × 600 pixels), LED backlight, and a laminated touchscreen with five-wire technology.

Block diagram (functionality)

Programmable Web-Panel MB

Micro-Browser

Automation Server

SD — ftp — http — SNMP

Logic Controller

Socket for Serial F-Modul RS-232, RS-485 | Ethernet | SERIAL RS-485

M-Bus
S-Bus
Modbus
...

MB PC-Browser

http direct

PCD PCD

PCD PCD Saia PCD® Energy meters

Serial S-Bus

Modbus

Ethernet Smart RIO PCD3.T66x

Ether S-IO

Ether S-Bus

Modbus devices

Modbus TCP

Technical data

General data

Supply voltage	18…32 VDC
Current consumption	max 600 mA on 24 VDC
Protection class (front)	IP 65
Dimensions (W × H × D) mm	319 × 264 × 60
Cut-out (W × H) mm	300 × 244
Temperature range	Operations: 0…50 °C typical Storage: −25…+70 °C
Relative humidity	Operations: 10 to 80 % Storage: 10 to 98 % non condensing
Processor	Coldfire CF5373L, 240 MHz
Date-time (RTC)	Backup through battery for data retention
Battery	Lithium Renata CR 2032 (Retention 1…3 year)
Status front LED	Multicolor

Display

Screen colors	65'536
Display	12.1" TFT
Resolution / Pixel	SVGA 800 × 600
Resolution / Pixel	Five-wire resistive touch screen
Contrast adjustement	Yes
Backlight	LED with a life cycle of 50 thousand hours

Logic Controller

User program, ROM /DB/text	1 MBytes
RAM DB/text	1 MBytes
Media	14'336 Flags / 16'384 Registers
Backup for user program	User program is always saved on integral µSD-Card and is therefore always backed up, even without battery!
User file system	128 MBytes on board
Program cycle time	10 cycles / sec maximum

Fieldbus Protocols

	Serial-S-Bus, Ether-S-Bus, Ether-S-IO
	Modbus RTU, Modbus ASCII or TCP, M-Bus

Internet Services

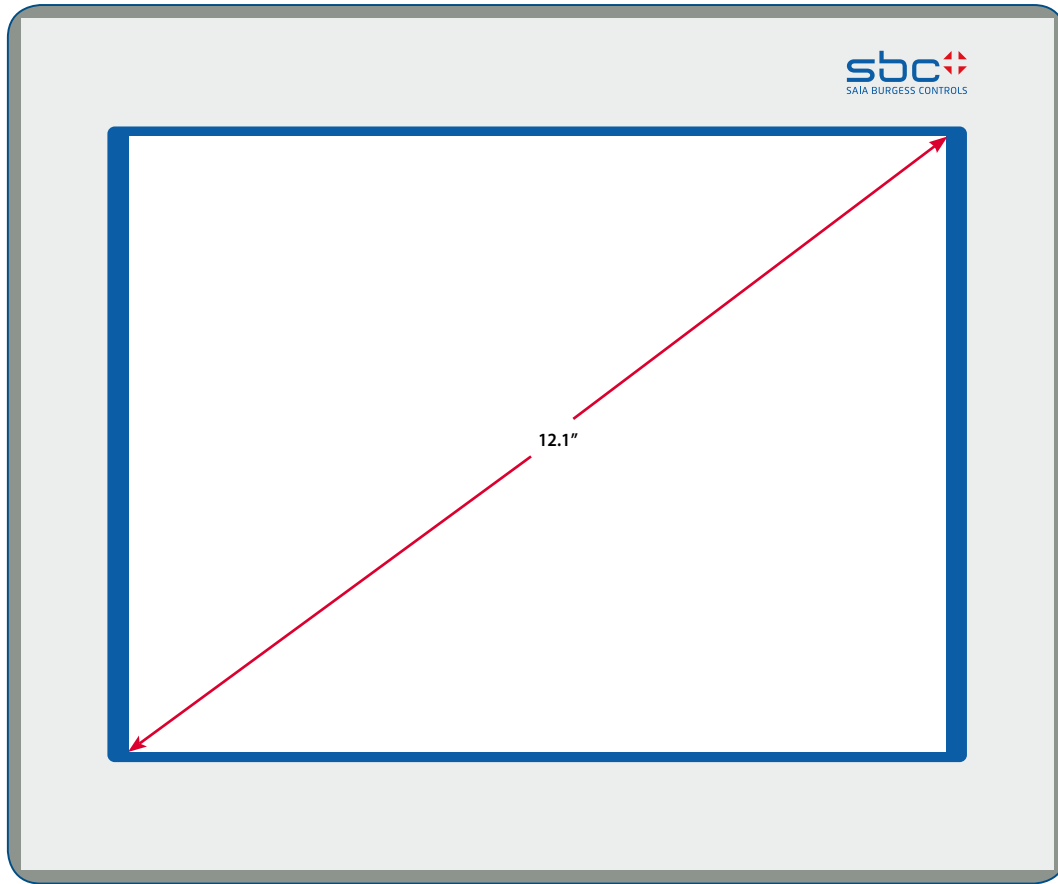|	
Browser	Saia Micro-Browser
HTTP Server	Visualisation with Web-Browser and Web-Panel
FTP-Server	Simple data exchange
TCP/IP	Efficient communication
SMTP Client	E-Mails with file attachments (e.g. Log-files)
DHCP and DNSClient	Easy connection to IP networks
SNTP Client	Synchronisation of internal clock

Synchronisation of internal clock

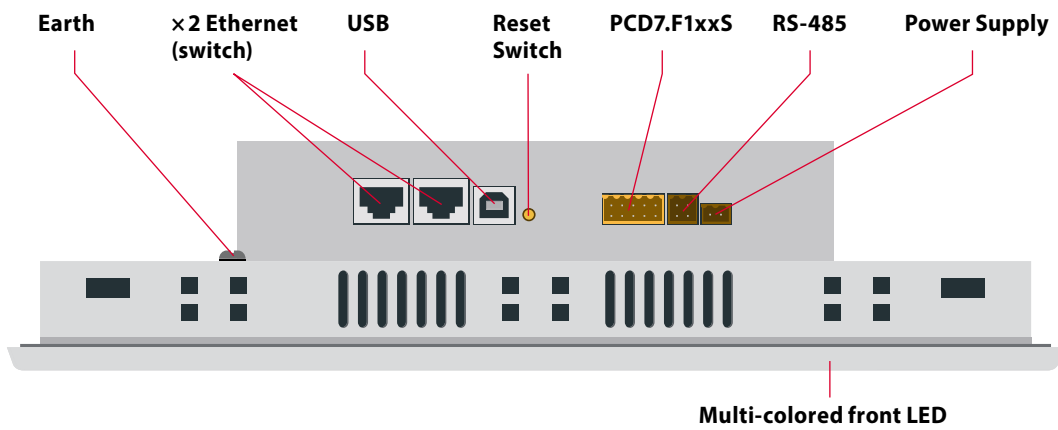|	
Ethernet 10 / 100 M	×2 RJ45 (Switch)/http direct
USB 12 M	×1 client
Serial up to 115 kB	RS-485 & socket for PCD7.F1xxS

Software

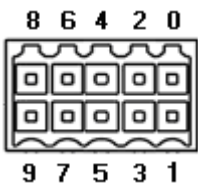|	
Saia PG5®	Programming tool for PLC applications (IL, FUPLA and GRAFTEC)
Saia Web-Editor	Graphics editor for Saia Micro-Browser

Front view

12.1"

Installation

Earth   ×2 Ethernet (switch)   USB   Reset Switch   PCD7.F1xxS   RS-485   Power Supply

Multi-colored front LED

Connections

PCD7.F1xxS

8 6 4 2 0
9 7 5 3 1

Connector pins	Signal RS-232	Signal RS-485
0	GND	GND
1	TXD	D
2	RXD	/D
3	RTS	
4	CTS	
5	GND	GND
6	DTR	
7	DSR	
8	COM	
9	DCD	

RS-485

1 3
2 4

Connector pins	Signal
1	GND
2	NC
3	/D
4	D

Power Supply

1 2
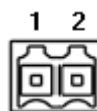
Connector pins	Signal
1	24 V (+)
2	GND (-)

Order information

Model	Description	Weight
	Programmable Web-Panel with embedded Saia Micro-Browser	
PCD7.D412DT5F	12.1" TFT SVGA pWeb Panel MB with 65 K colors, five-wire touchscreen, LED backlight, 128 MB flash memory, ×2 Ethernet (switch), USB, RS-485 and socket for PCD7.F1xxS, programmable with the software tool Saia PG5®	2.800 g
	Accessories	
PCD7.D412-IWS	Kit for in-wall-mounting	1.200 g
PCD7.D412-OWS	Kit for on-wall-mounting	1.600 g

Kit for in-wall-mounting
PCD7.D412-IWS

Kit for on-wall-mounting
PCD7.D412-OWS