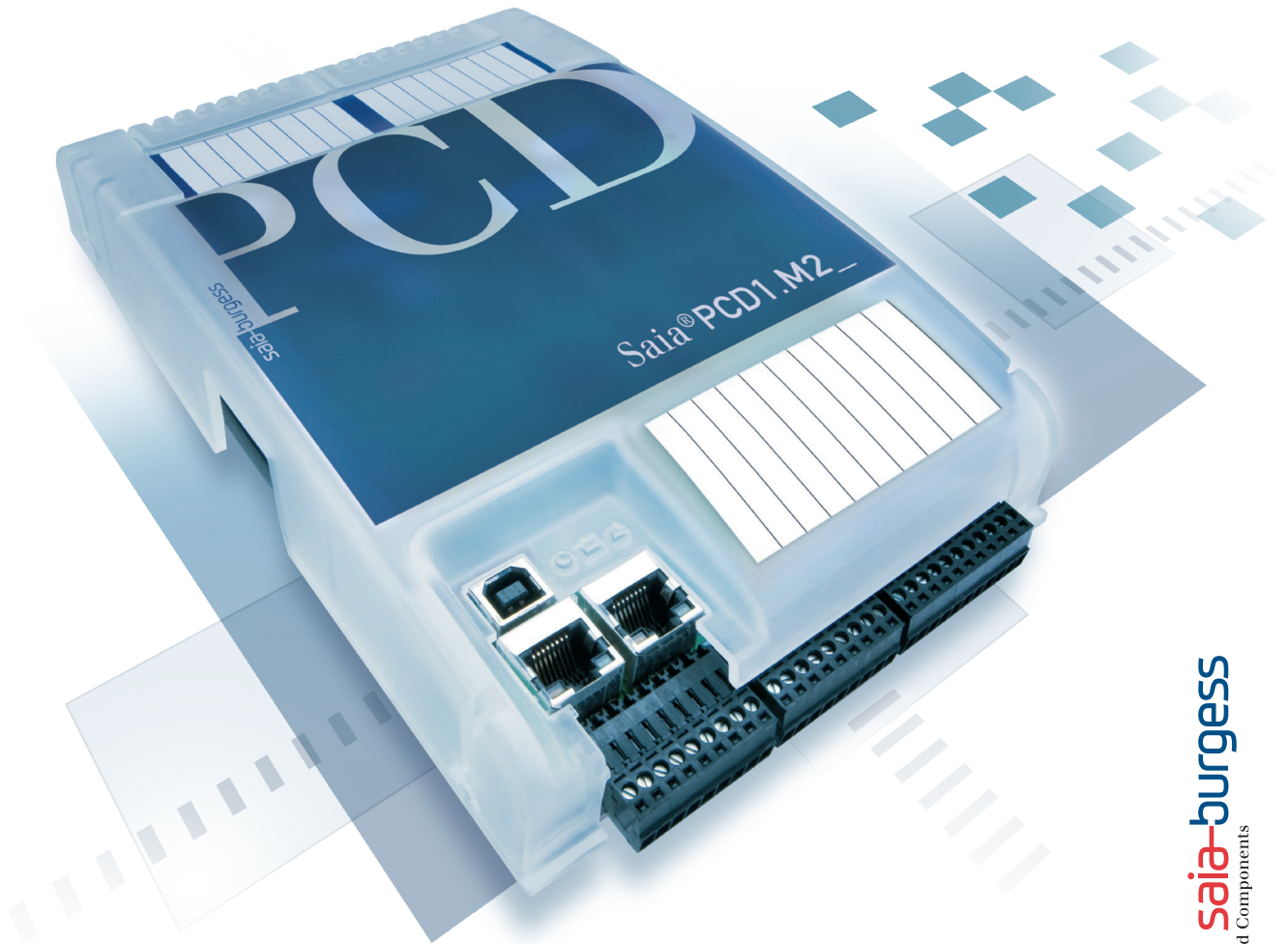


Flyer



The new Saia® PCD1 - The smallest complete platform of the Saia® PCD System

Controls Division

PCD1.New

As the smallest complete platform of the Saia® PCD family, the new PCD1 is a freely programmable industrial controller with a fully integrated Automation Server (Web+IT functionality). It has integrated digital and analogue inputs and outputs, 2 expansion slots for I/O modules, a RS485 interface, an integrated 2 port Ethernet switch, and interfaces for Saia® flash cards. Serial interface is also available as an option.

Small in size, Big in features

Having the same footprint as the existing PCD1 but with an even lower profile, the new PCD1 will fit into tight spaces. But with the full suite of Web+IT features, such as a built-in web server and FTP server, file system and SD flash technology, along with its I/O extension possibilities, it is as capable as its bigger siblings in satisfying application requirements.

Flexible Automation

The small and affordable PCD1 brings the Automation Server to more applications, and expands the engineering possibilities. The PCD1.New can play many roles, for example, it can also act as a remote I/O unit to another PCD using its RS485 or Ethernet interfaces, or it can act as an automation server gateway to other applications.

Technical Data

Latest CPU technology

User program, ROM DB/text	512 KBytes as on PCD3.Compact
RAM DB/Text	128 KBytes, battery supported
Media	Flags, registers, battery supported
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	8 MBytes on board
Operating system	Saia®NT operating system

Optional data storage

Slot for Saia® flash card	PCD7.R550M04
Data files	up to 1000 files with file system. Download and upload via ftp

Programming

Programming tool PG5 for PLC applications (IL, FUPLA und GRAFTEC)	
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Internet and Intranet protocols

HTTP Server	Visualisation with Web-Browser and Web-Panel
FTP Server	Simple data exchange
TCP/IP-PPP Point to Point Protocol	efficient communication
SMTP Client	Emails with file attachments (e.g. Log-files)
DHCP and DNS Client	Easy connection to IP networks
SNTP Client	Synchronisation of internal clock

Field level communication interface

On board interfaces	Ethernet (2 port switch), USB and RS485
Socket A for optional interface	RS 232, RS 422/485 (PCD7.F1xx), (Bluetooth in preparation)
Optional interfaces on I/O Slot	PCD2.F2xxx (with integrated slot A for PCD7.F1xx Module) Total up to 6 serial interfaces
Advanced communication	BACnet®, Lon over IP

Field level protocols

Serial-S-Bus, Ether-S-Bus and Profi-S-Bus	
Modbus RTU or TCP, EIB, M-Bus,	For other protocols please refer to Saia® Documentation.

Tele-S-Net

Optional Modem on I/O slot	ISDN Modem: PCD2.T851, PSTN Modem: PCD2.T814
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17 I/O Data points

4 Digital input + 2 Interrupts	15...30 VDC
4 Digital outputs	24 VDC
1 PWM output	24 VDC, 0.2 A
4 Digital inputs- outputs	24 VDC
2 configurable analogue inputs	-10...+10 VDC, 0...±20 mA, Pt1000, Ni1000, Ni1000 L&S, 0...2.5 kΩ
Additional remote I/O's	PCD3.T760 over Profi-S-IO, PCD3.T660 Ethernet-RIO

General data

Supply voltage	24 VDC (or 12 VDC on demand) 230 VAC on I/O slot PCD2.N107 (100 mA for external I/Os)
Watchdog relay make contact	48 VAC or VDC ¹⁾ 1 A
Battery (exchangeable)	Lithium battery with lifetime of 1 to 3 years
Operating temperature	0...55 °C
Compact size (B × H × T)	141.4 × 208 × 48 mm
Type of mounting	Top-hat rail according to DIN EN60715TH35 (formerly DIN EN50022) (2 × 35 mm)
Protection level	IP 20

¹⁾ mount a free-wheeling diode over the load when switching DC tension Ordering information

Typ description

Typ	description
PCD1.M2120	with Ethernet
PCD1.M2020 ²⁾	without Ethernet

²⁾ in preparation

Contact

Switzerland and international

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