



# Type Approval Certificate

## Germanischer Lloyd

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **6843794 HH**

Company **Saia-Burgess Controls AG**  
**Bahnhofstrasse 18**  
**3280 Murten, SWITZERLAND**

Product Description **Programmable Controller**

Type **Programmable Controller PCD1, PCD2, PCS1 and Series PCD7**

Environmental Category **C; EMC1**

Technical Data /  
Range of Application **Series PCD1 / PCD2 / PCS1 and Series PCD7 Programmable Controller**  
**PROCESSOR and SUPPLY MODULES**  
**Base units for 4 I/O modules**  
**PCD1.M110 .M120 .M125 .M130 .M135 .M137 .T240**  
**Base units for 8 I/O modules**  
**PCD2.M110 .M120 .M150 .M170 .M127 .M157 .M177 .M480 .M487**  
**.M5440 .M5540 .M5547**  
**Programming with Saia-PGx**  
**and/or with Siematic (S7-Graph, S7-HIGraph, S7, SCL, CFC)**  
**Operating system: Step 7**  
**Tests and evidence according Requirement class 3**  
**IEC 60068-2-1/-2/-6/-30 and IEC 60092-504**  
**Firmware regarding document No. 124465307\_5 dated 06-01-2006**  
**Test report MP-EPCD1-011Rev.02 dated 29-09-2005 and 10021-DX-**  
**GL\_TAC\_6843794; LB-EPCD1\_004 Rev. 01 dated 19-11-2004; No. 10004-MP\_TATR-**  
**PCD2.C2000 dated 22-03-2010**

Test Standard **Guidelines for the Performance of Type Approvals VI-7-2, Edition 2003**  
**Regulations for the Use of Computers and Computer Systems**

Documents **Manual Saia PCD1 and 2: 26/737E5; Test Reports: No. GL-PCD1.DOC (27.04.98);**  
**GL\_PCD4\_99:DOC (02/99), STS 024 No. 13157 dated 28-11-2002; 12'916 dated 25-01-**  
**2002, L0552-02 d; No. 09036-MP\_TATR-PCD2.M5 dated 19-04-2010; 10013-DX-**  
**GL\_TAC\_6843794 and 10014-DX-GL\_TAC\_6843794**

Remarks **None**

Valid until **2013-10-01**

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File No. **I.B.07**

**Hamburg, 2011-09-23**

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Marco Rinkel

Andrea Grün

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## MEMORY MODULES

PCD7.R4xx Flash Memory Backup module; PCD2.R6000 Base module with slot for SD flash memory cards

## EXTENSION MODULES

PCD2.C10x Extension unit for 8 I/O modules; .C15x and .C2000 (half width) : Extension unit for 4 I/O modules

## DIGITAL INPUT/OUTPUT MODULES

PCD2.E11x : 8 inputs 24V DC sink/source; .E16x : 16 inputs 24V DC sink/source; .E61x : 8 inputs 24V DC opto isolated  
.E500 : 6 inputs 115-230VAC opto isolated; .E520 : 6 inputs 24VAC opto isolated; .E523 : 6 inputs 48VAC opto isolated  
.A2xx : 4 relay outputs 230V / 2A with VDR/RC prot.; .A220 : 6 relay outputs 230V / 2A; .A250 : 8 relay outputs 48V / 2A  
.A300 : 6 transistor outputs 24V/2A; .A400 : 8 transistor outputs 24V/0.5A;  
.A410 : 8 transistor outputs 24V/0.5A, opto isolated; .A46x : 16 transistor outputs 24V/0.5A;  
.B100 : 8 combined inputs/outputs, 24V / 24V / 0.5A

## ANALOGUE INPUT/OUTPUT MODULES

PCD2.W10x : 4 analogue inputs (0..10V, +/-10V, 0..20mA, +/-20mA); .W11x : 4 analogue inputs (Pt100, Ni100, Pt1000, Ni1000)  
.W2xx : 8 analogue inputs (0..10V, 0..20mA, Pt1000); .W3xx : 8 analogue inputs (0..10V, 0..20mA, Pt/Ni100, Pt1000),  
.W3x5 : 7 analogue inputs with galvanic separation (0..10V, 0..20mA, +/-10V)  
.W4xx : 4 analogue outputs (0..10V, 0..20mA); .W5xx : 4 analogue in/outputs (0..10V, 0..20mA)  
.W5xx : 4 analogue in/outputs (0..10V, 0..20mA)  
.W6xx : 4 analogue outputs (0..10V, +/-10V, 0..20mA)  
.W6x5 : 6/4/6 analogue outputs with galvanic separation (0..10V, 0..20mA, +/-10V)  
.W7x0 : 1/2 analogue weighing systems for up to 4 resp. 6 weighing cells  
.W745 : 4 analogue for sensor types RTD Thermocouple

## COMBINED DIGITAL / ANALOGUE MODULES

PCD2.G400 : 4 I/O modules combined: .W200/.W400.A400.E110; .G410 : 4 I/O modules combined: .E610 .A200 .W410 .W2...

MODEM MODULES: PCD2.T813 : Analogue modem 33.6 kbps; PCD2.T850 : Digital modem ISDN-TA

BUS COMPONENTS FOR RS485 NETWORKS : PCD7.T1xx : Repeater RS485, Converter RS232 & RS485, Termination box

TEXT TERMINALS : PCD7.D16x : Terminal, direct mounting on PCD1/PCD2

FLASH CARDS : PCD7.R500 Back-up flash card; PCD7.R550M04 4 MByte flash card with 3 MByte file system

PCD7.R551M04 4 MByte flash card with 3 MByte file system; PCD7.R560/ 2 MByte flash card with BACnet firmware

PCD7.R561; PCD7.R-CF1024 Compact flash card 1024MB; PCD7.R-CF128 Compact flash card 128MB

PCD7.R-CF2048 Compact flash card 2048MB; PCD7.RD4-SD SD card holder module for PCD7.D4xx micro browser VGA panels

PCD7.R-SD256 SD card 256MB; PCD7.R-SD512 SD card 512MB; PCD7.R-SD1024 SD card 1024MB

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## COUNTING AND MOTION CONTROL MODULES

PCD2.H1xx : Counter module 20 / 100kHz; .H150 : Serial synchronous interface (SSI) module

## SERIAL INTERFACE MODULES

PCD7.F1xx : Interface (RS422/485, RS232, 20mA CL opto isolated, RS485 opto isolated)

PCD7.F121 Serial Interface RS232; PCD7.F180 Serial Interface MP-Bus;

PCD2.F2100 RS 422 / RS 485 & optional PCD7.F1xx; PCD2.F2210 RS 232 & optional PCD7.F1xx

PCD2.F2810 Belimo MP-Bus & optional PCD7.F1xx

## COMMUNICATION MODULES

PCD2.F5xx : Real Time Clock (RTC), 7-segment display, serial ports, Interface for display PCD7.D160

.T500 : MP-Bus (Belimo)

PCD7.F180 : MP-Bus (Belimo)

.F700 : Profibus FMS module; .F750 : Profibus DP Master module; .F77x : Profibus DP Slave module;

.F80x : LON module; .F65x : Ethernet module

PCD7.F7400 CAN communication extension module; PCD7.F7500 Profibus DP Master communication extension module

## PUBLIC MEMORY MODULES

PCD7.R1xx : 2 sockets for EPROM or RAM (max 256kByte), accumulator, HW clock, RAM for F/T/C/R media

PCD7.R2xx : 2 sockets for EPROM or RAM, equipped with RAM 256kByte, accumulator, HW clock, RAM for F/T/C/R media

PCD7.R3xx : 2 sockets for EPROM or RAM (max.428kByte), accumulator, HW clock, RAM for F/T/C/R media

## ANALOGUE RANGE MODULES

PCD7.W1xx : 4 inputs (0..10V, 0..20mA, Pt1000) ; PCD7.W2xx : 1 output (+/-10V, 0..10V, 0..20mA, 4..20mA)

PCD7.W3xx : 2 outputs (+/-10V, 0..10V, 0..20mA, 4..20mA)

## VARIO PLUS MODULES

PCD7.L97x : VARIO-PLUS reduced; PCD7.L98x : VARIO-PLUS standard; PCD7.L99x : VARIO-PLUS extended

## Serie PCD7 TEXT TERMINALS

Terminals via serial interface RS232 : PCD7.D170; PCD7.D202; PCD7.D250

Graphics Terminal with single knob control, 10, resp. 20 function keys : PCD7.D23x

## Serie PCS1 COMPACT CONTROLLER

PCS1.C8xx (xxxx) : Base unit including 36 Digital +Analog I/O, 4 N.O + 4 SPDT Relay outputs

PCS1.C6xx (xxxx) : Base unit as PCS1.C8xx with less I/O

PCS1.C4xx (xxxx) Base unit as PCS1.C8xx with less amount of I/O (19 data points)

## ACCESSORIES

PCD2.K106 Bus extension cable; PCD2.K010 Bus extension connector; PCD7.D3100e Embedded display module

Each designation may be followed by Zxx (xx are digits for customer specific product design)

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