

# **Type Approval Certificate Extension**

This is to certify that Certificate No. 08/20008(E4) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

**PRODUCER** 

Saia-Burgess Controls AG

PLACE OF PRODUCTION

Bahnhofstrasse 18

CH 3280 Murten

Switzerland

**DESCRIPTION** 

Programmable Logic Controller

**TYPE** 

PCD1, PCD2, PCD3 and PCD7

Note 1: Each product designation may be followed by "Zxx", where "xx" are digits for customers

specific product design (Logo, colours, pre-configured IO modules).

Note 2: "x" "xx" and "xxx" in type designation are digits to express products with variant

equipment of components.

## Including the following modules:

Series PCD1 Programn	nable Controller	$\overline{\mathbf{FW}}$
PCD1.M110	Base unit with Bus for 4 I/O modules	V08x
PCD1.M120	Base unit with Bus for 4 I/O modules	V08x
PCD1.M125	Base unit with Bus for 4 I/O modules	V0Fx
PCD1.M130	Base unit with Bus for 4 I/O modules	V08x
PCD1.M135	as PCD1.M125 but with socket for CR2032 lithium battery	V0Fx
PCD1.M137	Base unit with Bus for 4 I/O modules	V3.1xx
PCD1.M0160E0	Base unit 18 integrated I/Os, no I/O slots, with Ethernet TCP/IP	1.1x.xx
	and S-Monitoring functionalities by default	
PCD1.M2020	Base unit, 18 integrated I/Os, 2 free I/O slots	1.1x.xx
PCD1.M2120	Base unit, 18 integrated I/Os, 2 free I/O slots, with Ethernet TCP/IP	1.1x.xx
PCD1.M2160	Base unit, 18 integrated I/Os, 2 free I/O slots, with Ethernet TCP/IP	1.1x.xx
	and expanded memory	

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14 July 2017

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71 Fenchurch Street, London EC3M 4BS

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Series PCD1 Programmable Controller		
PCD1.M2110R1		
	for room automation applications	
PCD1.T240	with Bus for 4 I/O modules	xE0
Series PCD2 Programm		$\underline{\mathbf{FW}}$
PCD2.M110	Base unit for 8 I/O modules	V09x
PCD2.M120	Base unit for 8 I/O modules	V09x
PCD2.M127	Base unit for 8 I/O modules, programmable with Step 7	V3.1xx
PCD2.M150	Base unit for 8 I/O modules	V0Fx
PCD2.M157	Base unit for 8 I/O modules, programmable with Step 7	V3.1xx
PCD2.M170	Base unit for 8 I/O modules	V0Fx
PCD2.M177	Base unit for 8 I/O modules, programmable with Step 7	V3.1xx
PCD2.M480	Base unit for 8 I/O modules	1.0x.xx
PCD2.M487	Base unit for 8 I/O modules, programmable with Step 7	1.3xx
PCD2.M5440	Base unit for 8 I/O modules, with RS232 and RS485,	1.1x.xx
	without Ethernet TCP/IP	
PCD2.M5540	Base unit for 8 I/O modules, with RS232 and RS485,	1.1x.xx
	with Ethernet TCP/IP	
PCD2.M5547 similar to PCD2.M5540, but programmable with Step 7		1.0x.xx
<b>Extension Modules</b>		
PCD2.C10x	unit for 8 I/O modules	n/a
PCD2.C15x	unit for 4 I/O modules	n/a
PCD2.C2000	unit for 8 I/O modules	n/a
PCD2.C1000	unit for 4 I/O modules	n/a
	,	
Digital Input Modules		
PCD2.E11x	8 inputs 24V DC sink/source	n/a
PCD2.E16x	16 inputs 24V DC sink/source	n/a
PCD2.E61x	8 inputs 24V DC opto isolated	n/a
PCD2.E500	6 inputs 115-230VAC opto isolated	n/a
PCD2.E520	6 inputs 24VAC opto isolated	n/a
PCD2.E523	6 inputs 48VAC opto isolated	n/a
	-1111111111111111	/

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Digital Output Module PCD2.A2xx PCD2.A220 PCD2.A250 PCD2.A300 PCD2.A400 PCD2.A410 PCD2.A46x PCD2.B100	4 relay outputs 230V / 2A with VDR/RC prot. 6 relay outputs 230V / 2A 8 relay outputs 48V / 2A 6 transistor outputs 24V/2A 8 transistor outputs 24V/0.5A 8 transistor outputs 24V/0.5A, opto isolated 16 transistor outputs 24V/0.5A combined inputs/outputs, 24V / 24V / 0.5A	FW n/a n/a n/a n/a n/a n/a n/a n/a n/a
Analogue Input/Outp PCD2.W10x PCD2.W11x PCD2.W2xx PCD2.W3xx PCD2.W3x5 PCD2.W4xx PCD2.W5xx PCD2.W525 PCD2.W6xx PCD2.W6xx PCD2.W6x5	4 analog inputs (010V, ±10V, 020mA, ±20mA) 4 analog inputs (Pt100, Ni100, Pt1000, Ni1000) 8 analog inputs (010V, 020mA, Pt1000) 8 analog inputs (0V10V, 020mA, Pt/Ni100, Pt1000) 7 analog inputs with galvanic separation (010V, 020mA, ±10V) 4 analog outputs (010V, 020mA) 4 analog in/outputs (010V, 020mA) 4 analog inputs / 2 analog outputs (010V, 020mA) 4 outputs (0V10V, ±10V, 020mA) 6/4/6 analog outputs with galvanic separation (010V, 020mA, ±10V) 1/2analog weighing systems for up 4 resp. 6 weighing cells 4 analog inputs for sensor types RTD Thermocouple	n/a n/a n/a 02x 02x 02x 02x 02x 02x 02x 02x
Combined Digital/Ana PCD2.G400 PCD2.G410  Motion Control and Co PCD2.H1xx PCD2.H150  Modem Modules PCD2.T813	I/O modules combined from: .W200/.W400.A400.E110 4 I/O modules combined from: .E610, .A200, .W410, W2xx	n/a n/a n/a n/a 2.0x
PCD2.T850 Certificate No.	Digital modem ISDN-TA 08/20008 (E5)	2.0x

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Serial Interface Module	es	FW	
PCD7.F1xx	Interface (RS422/485, RS232, 20mA CL opto isolated, RS485 opto	n/a	
PCD7.F1xxS	isolated), including new S-versions with smaller form factor, e.g.:		
PCD7.F110	Interface RS422/485		
PCD7.F110S	Interface RS422/485, smaller form factor		
PCD7.F121	Interface RS232		
PCD7.F121S	Interface RS232, smaller form factor		
PCD7.F150	Interface RS485, opto isolated		
PCD7.F150S	Interface RS485, opto isolated		
PCD7.F180	Interface MP-Bus		
PCD7.F180S	Interface MP-Bus, smaller form factor		
PCD2.F2100	RS422/RS485 & optional PCD7.F1xx	020	
PCD2.F2210	RS232 & optional PCD7.F1xx	020	
PCD2.F2810	Belimo MP-Bus & optional PCD7.F1xx	020	
Communication Modu			
PCD2.F5xx	Real Time Clock (RTC), 7-segment display, serial ports, Interface		
	for display PCD7.D160		
PCD2.T500	MP-Bus (Belimo)		
PCD7.F700	PROFIBUS FMS	the sector are	
PCD7.F750	PROFIBUS DP master module	V1.1	
PCD7.F77x	PROFIBUS DP slave module		
PCD7.F80x	LON module	V006	
PCD7.F65x	Ethernet module	V044	
PCD7.F7400	CAN communication extension module	n/a	
PCD7.F7500	Profibus DP Master communication extension module	V01x	
Memory Modules			
PCD2.R6000	Race module with elet for SD flesh memory cords (up to 1 modules	n/2	
1 CD2.R0000	Base module with slot for SD flash memory cards (up to 4 modules in I/O slots 0 to 3 on a CPU)	n/a	
PCD7.R4xx	Flash memory backup module	n/a	
PCD7.R5xx	Flash memory Backup module		
I CD/.NOXX	rash memory backup module	n/a	
Bus Components for RS485 Networks FW			
PCD7.T1xx	Repeater RS485, Converter RS232 & RS485, Termination Box	n/a	
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Text Terminals				
PCD7.D16x	Terminal, direct mounting on PCD1/PCD2	V02		
PCD7.D170	Terminal via serial interface RS232	V02		
PCD7.D202	Terminal via serial interface RS232 (w/display PC2004LR)	V011		
	Terminal via serial interface RS232 (w/o display PC2004LR)	V012		
PCD7.D250	Terminal via serial interface RS232	V011		
PCD7.D23x	Graphics Terminal with single knob control or function keys	V040		
Accessoires				
PCD7.D3100e	Embedded display module	V0.xx		
PCD2.K010	Bus extension connector	n/a		
PCD2.K1xx	Extension cable PCD3 to PCD3, PCD2 to PCD2	n/a		

## Series PCD3.M2 Programmable Controller

PCD3.M2130V6 Same as M2030, but with Ethernet TCP/IP 1.1x.xx PCD3.M2230A4Tx Compact PLC with 512 kBytes user program memory, 8 dig. IN, 1.1x.xx 2 dig. OUT, 4 analog IN, 1 Telecom port for PSTN ( $\rightarrow$ T1), ISDN ( $\rightarrow$ T3) or GSM/GPRS ( $\rightarrow$ T5); expandable to max. 78 I/O PCD3.M3020 PLC with 128/256/256 kBytes of user memory. Backup with 1.1x.xx 1.1
PCD3.M2137V6 Same as M2130, but programmable with Siemens Step 7 1.1x.xx PCD3.M2230A4Tx Compact PLC with 512 kBytes user program memory, 8 dig. IN, 1.1x.xx (x=1, 3, 5) 2 dig. OUT, 4 analog IN, 1 Telecom port for PSTN ( $\rightarrow$ T1), ISDN ( $\rightarrow$ T3) or GSM/GPRS ( $\rightarrow$ T5); expandable to max. 78 I/O PCD3.M2330A4Tx Same as PCD3.M2230A4Tx, but with Ethernet TCP/IP 1.1x.xx PCD3.M3020 PLC with 128/256/256 kBytes of user memory. Backup with 1.1x.xx
PCD3.M2230A4Tx Compact PLC with 512 kBytes user program memory, 8 dig. IN, $(x=1,3,5)$ 2 dig. OUT, 4 analog IN, 1 Telecom port for PSTN ( $\rightarrow$ T1), ISDN ( $\rightarrow$ T3) or GSM/GPRS ( $\rightarrow$ T5); expandable to max. 78 I/O PCD3.M2330A4Tx Same as PCD3.M2230A4Tx, but with Ethernet TCP/IP 1.1x.xx PCD3.M3020 PLC with 128/256/256 kBytes of user memory. Backup with 1.1x.xx
(x=1, 3, 5) 2 dig. OUT, 4 analog IN, 1 Telecom port for PSTN ( $\rightarrow$ T1), ISDN ( $\rightarrow$ T3) or GSM/GPRS ( $\rightarrow$ T5); expandable to max. 78 I/O PCD3.M2330A4Tx Same as PCD3.M2230A4Tx, but with Ethernet TCP/IP 1.1x.xx PCD3.M3020 PLC with 128/256/256 kBytes of user memory. Backup with 1.1x.xx
ISDN ( $\rightarrow$ T3) or GSM/GPRS ( $\rightarrow$ T5); expandable to max. 78 I/O PCD3.M2330A4Tx Same as PCD3.M2230A4Tx, but with Ethernet TCP/IP 1.1x.xx PCD3.M3020 PLC with 128/256/256 kBytes of user memory. Backup with 1.1x.xx
PCD3.M2330A4Tx Same as PCD3.M2230A4Tx, but with Ethernet TCP/IP 1.1x.xx PCD3.M3020 PLC with 128/256/256 kBytes of user memory. Backup with 1.1x.xx
PCD3.M3020 PLC with 128/256/256 kBytes of user memory. Backup with 1.1x.xx
.M3120 internal Flash memory, USB port for PG5. Max. 64/1023/1023 digital
.M3230 I/O, 2 interrupt inputs, web-server; RS 485 for Profi-S-Net or S-Bus
.M3330 PCD3.M3120 with Ethernet TCP/IP
PCD3.R010 Battery Module for PCD3.M3xx

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Series PCD3.M5 Programmable Controller		
PCD3.M5340	PLC with 512 Kbytes of user memory, max. 1023 digital I/O, 2 interrupts input	1.1x.xx
.M5440	Run/Stop switch. Web server; Backup option with PCD7.R500 Flash	
.M5540	Card Data protection 13 years with lithium battery. USB port for PG5; RS232, RS485 for Profi-S-Net and RS485 for S-Bus, .M5340 with switchable RS485/RS422, .M5340/.M5540 is with Ethernet TCP/IP	
PCD3.M5447	•	1.1x.xx
.M5547	Similar to .M5440, but programmable with Siemens Step 7 Similar to .M5540 but programmable with Siemens Step 7	1.1X.XX
PCD3.M6240	Similar to .M5440, but with CAN interface	1.1x.xx
.M6340	Similar to .M5540, but with CAN interface	1.1x.xx
.M6347	Similar to .M6340, but programmable with Siemens Step 7	1.1x.xx
PCD3.M3 Battery Print	Holder for Lithium Battery and LED for CPU status	
RIO Head Stations		
PCD3.T660	PCD3 Ethernet RIO Head station (similar to PCD3.M3330)	1.1x.xx
PCD3.T665	PCD3 Ethernet RIO Head Station (strip down version of	1.1x.xx
	PCD3.M3330), 32kB program memory, 256 kB on-board-file system	
PCD3.T666	PCD3 Ethernet RIO Head Station (strip down version of	1.1x.xx
	PCD3.M3330), 128kB program memory, 512kB on-board-file system, onboard RS485 interface	
PCD3.T667	Same as .T66x, compatible with Siemens Step 7	n/a
PCD3.T76x	Profibus DP RIO Head Station with 4 I/O module slots, Profibus DP/	
	Profi-S-Net	
PCD3.T26x	connection and integral web server, 24VDC supply	V035
Extension Modules		
PCD3.C100	Extension housing with 4 I/O module sockets	n/a
PCD3.C110	Extension housing with 2 I/O module sockets	n/a
PCD3.C200	Similar to PCD3.C100, with 24VDC power supply	n/a

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Digital Input/Outpu	t modules	<u>FW</u>
PCD3.E11x	8 inputs, 24 VDC, sink/source	n/a
PCD3.E16x	16 inputs, 24 VDC, sink/source	n/a
PCD3.E61x	8 inputs, 24 VDC opto isolated	n/a
PCD3.E500	6 inputs, 115-230 VAC, opto isolated	n/a
.E520	6 inputs, 24VDC, opto isolated	n/a
.E523	6 inputs, 48VDC, opto isolated	n/a
.A2xx	4 relay outputs 230VAC/2A with VDR/RC protection	n/a
.A220	6 relay outputs 230VAC/2A	n/a
.A251	8 relay outputs 48VDC/2A (6x make, 2x changeover)	n/a
PCD3.A300	6 transistor outputs 24VDC/2A	n/a
PCD3.A400	8 transistor outputs 24VDC/0.5A	n/a
PCD3.A410	8 transistor outputs 24VDC/0.5A, opto isolated	n/a
PCD3.A46x	16 transistor outputs, 24VDC/0.5A	n/a
PCD3.A810	4 relay outputs (2 change over, 2 make contacts)	n/a
PCD3.A860	2/2 2 relay outputs, 2 dig. inputs	V010
PCD3.B100	8 combined inputs/outputs, 24V / 24V / 0,5A	n/a
A 1 T	(26.11	
Analogue Input/Out		,
PCD3.W10x	4 analogue inputs (010V, ±10V, 020mA, ±20mA)	n/a
.W11x	4 analogue inputs (Pt100, Ni100, Pt1000, Ni1000)	n/a
.W2xx	8 analogue inputs (010V, 020mA, Pt1000)	n/a
.W3xx	8 analogue inputs (010V, 020mA, Pt/Ni100, Pt1000)	V02x
.W3x5 7 analogue inputs with galvanic separation (010V, 020mA) V02x		
.W4xx	4 analogue outputs (010V, 020mA)	V02x
.W5xx	4 analogue in/outputs (010V, 020mA)	V02x
.W525	4 analogue inputs / 2 analogue outputs (010V, 020mA)	V02x
.W6xx	4 analogue outputs (010V, ±10V, 020mA)	V03x
.W6x5	0 1 , , ,	
PCD3.W7x0		
.W800	Analogue manual control module with	V02x V01x
-3 outputs 0-10 V with manual control		V 01X
	-1 output 0-10 V with manual control	
	-1 output 0-10 v without manual control	

### Memory Modules and Flash Cards

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PCD3.Rxxx TYPES (continued)	Flash Memory Backup module	n/a
Counting and Motion (	Control Modules	FW
PCD3.H1xx	Counter module 20 / 100 kHz	n/a
PCD3.H150	Absolute encoder module with serial synchronous interface (SSI)	n/a
1020111100	and 4 outputs 24 VDC/0.5A	/
PCD3.H210	Module for one stepper motor axis	n/a
PCD3.H310	Module for 1 servomotor axis, encoder input, 24 VDC/100 kHz,	n/a
	setpoint output $\pm$ 10 V (12 Bit)	/
PCD3.H311	Module for 1 servomotor axis, encoder input, 5 VDC/100 kHz,	n/a
	setpoint output $\pm$ 10 V (12 Bit)	,
Serial Interface Module	<u>es</u>	
PCD3.F1xx	Module (RS 422/RS 485, RS 232, 20mA CL opto isolated, RS485 opto	n/a
	isolated), containing PCD7.F1xx or .F1xxS modules	
.F1xxR500	F1xx Serial Interface module with Flash memory for user program	
	backup	
PCD3.F210	RS422/RS485 & optional PCD7.F1xx	V020
PCD3.F221	RS232 & optional PCD7.F1xx	V020
PCD3.F281	Belimo MP-Bus & optional PCD7.F1xx	V020
Plugs and Cables		
PCD3.K010	Extension plug PCD3 to PCD3	n/a
PCD3.K1xx	Extension cable PCD3 to PCD3 and PCD2 to PCD2	n/a
VARIO Plus Modules		
PCD7.L97x	VARIO-Plus reduced	n/a
PCD7.L98x	VARIO-Plus standard	n/a
PCD7.L99x		
T CD7.LD77X	L99x VARIO-Plus extended n/a	
Series PCS1 Compact	Controller	<b>FW</b>
		: V0A4
PCS1.C8xx	Base unit including 36 Digital + Analogue I/O, 4 N.O + 4 SPDT	V0F0
	Relay outputs (totally 44 data points)	
PCS1.C6xx	Base unit as PCS1.C8xx with less amount of I/O (30 data points)	V0F0
PCS1.C4xx	Base unit as PCS1.C8xx with less amount of I/O (19 data points) V0F0	
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ADDITIONAL TESTS Dry Heat

Dry Heat Test (55°C/16hrs.) Change of Temperature Immunity (0-70°C) acc. IEC 60068-2-14

Cold Test (-25°C/2hrs) for PCD1.M125, PCD1.M135, PCD1.M2xxx, PCD3

WAC and PCD3 Compact.

APPLICATION Marine, offshore and industrial use. Suitable for process control systems in

environmental categories ENV1 and ENV2 as defined in Lloyd's Register's Test Specification No. 1: 1990 including change notice 1. The PCD7.D23x, PCD3, PCD2.M5xxx and the PCS1 families are in compliance with test

requirements as defined in Test Specification No. 1: 2002.

OTHER CONDITIONS Type approval of products according to Test Specification No. 1 is

essentially a Type Approval of hardware. Examination of software aspects is restricted to functional operation as demonstrated in the Performance

Test.

Functional arrangements of modules are to comply with LR Rules for Ships Part 6, Chapter 1. Additional requirements for essential services and safety critical systems are given in LR Rules for Ships Part 6, Chapter 1, Section

2.11.

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. HDS/ETS 28363-13 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 08/20008(E4) to which this extension should be attached.

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# Marine Design Appraisal Document

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Date

19 June 2013

Please quote this reference number on all future communications

HPC1220450/28363-13/ML/LK

THE LLOYD'S REGISTER'S TYPE APPROVAL SYSTEM, 2002 ISSUED TO: SAIA-BURGESS CONTROLS AG, SWITZERLAND FOR: PROGRAMMABLE LOGIC CONTROLLER PCD TYPE APPROVAL CERTIFICATE NO. 08/20008 (E5)

The additional undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register's Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

#### ADDITIONAL APPROVAL DOCUMENTATION

Form LR6606	Approval Services – Request for Quotation	08.11.2012
Form 2502	Request for Marine Service	15.11.2012
12002-MP_TATR_	Type Approval Test Report	18.09.2012
PCD1M2XXX		
CH-10524	ISO 9001:2008 Certificate issued by IQNET	13.12.2012
P+P26/504 EN04	Technical Data Saia PCD1 platform	06.2012
26/875_EN04	Hardware Manual of the PCD1.M2_	23.09.2011
20120730-LRS_TAC_Rev.01	List of certified modules for 08-20008-E4	16.03.2013
1 2446 6071 Bl.1 c	Part List – Processor module PCD1.M_	12.12.2011
1 2446 6143	Part List – Processor module PCD1.M0160xx	23.10.2012
463671860_Index d	Part List – Printed Circuit Board PCD1.M2020	05.11.2012
1 2446 6146	Part List – Processor module PCD1.M2110Rx	24.08.2012
463671180_Index k	Part List – Printed Circuit Board PCD1.M2120	05.11.2012
HPC1220450	Works Inspection report	16.04.2013
Unnumbered	Official Confirmation of Module Similarity	30.07.2012

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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