

# EUROPEAN UNION RECOGNISED ORGANISATION (EU RO) MUTUAL RECOGNITION TYPE APPROVAL CERTIFICATE

Certificate No:  
**MRA0000030**  
Revision No:  
**1**

In accordance with Article 10.1 of EU Regulation 391/2009

This Certificate is issued to  
**Saia-Burgess Controls AG**  
**Murten, FR, Switzerland**

for  
**Pressure Gauges/Transmitters**

with type designation(s)  
**PLC type PCD1, PCD2, PCD4, PCD7 and PCS1**

The product is found to comply with  
**EU RO Mutual Recognition Technical Requirements for Computers and Programmable Logic  
Controllers**  
**EU RO Mutual Recognition Technical Requirements for Display Monitors, Video Screens,  
Terminals**

Intended service

**Temperature [°C]:** -25°C to 45°C  
**Vibration:** ±1mm / 0,7g  
**EMC:** All locations except bridge and open deck (see "Other Conditions")  
**IP Code:** Required protection according to Class Rules

## This is to certify:

that the Product referred to herein has been inspected for the Manufacturer, pursuant to the relevant requirements of the European Union Recognised Organisation Mutual Recognition procedure, required by Article 10.1 of EU Regulation 391/2009, and has been found in accordance with those requirements.

This Certificate is valid until **2025-11-22**.

Issued at **Hamburg** on **2021-05-31**

for **DNV GL**

DNV GL local station: **Augsburg**

Approval Engineer: **Marco Rinkel**

.....  
**Joannis Papanuskas**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



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## Product description

### Serie PCD1/2 Programmable Controller:

Each designation may be followed by Zxx, where xx are digits for customer specific product design.

### Processor and supply modules

PCD1.M110/M120/M130/M137/T240, PCD1.M125/M135	Base unit for 4 I/O modules
PCD2.M110/M120/M127/M150/M170/M157/M177	Base unit for 8 I/O modules
PCD1.M2120	Standard Type with 128kByte user memory and TCP/IP communication
PCD1.M2020	as type M2120, but no TCP/IP communication
PCD1.M2160	as type M2120 with 1MByte user memory and TCP/IP communication
PCD1.M2220-C15	CPU (E-Line) with 2 I/O slots; 7xI/Os, 1xUSB, 1xRS485; 2xEthernet
PCD1.M2110R1	Special type for application in the field of room/cabine automation
PCD1.M0160E0	Special type for electro cabinet installation with factory-programmed energy monitoring functionality
PCD2.M5440	Base unit for 8 I/O modules, with RS232 and RS485, without Ethernet TCP/IP
PCD2.M5540	Base unit for 8 I/O modules, with RS232 and RS485, with Ethernet TCP/IP
PCD2.M5547	Similar to PCD2.M5540, programmable with Step 7
PCD2.M480/M487	Base unit for 8 I/O modules
PCD2.M4160	PCD2 processor base unit for 4 I/O modules, with Ethernet-TCP/IP, 512 KB program memory, 64 I/O, not expandable
PCD2.M4560	PCD2 processor base unit for 4 I/O modules, with Ethernet-TCP/IP, 2 MB program memory, expandable to 1024 I/O

### Memory Modules

PCD2.R6000	Base module with slot for SD flash memory cards (up to 4 modules in I/O slots 0 to 3 on a CPU)
PCD7.R4xx	Flash Memory Backup module
PCD7.R5xx	Flash Memory Backup module
- Representative for the following modules:	
PCD7.R500	Back-up flash card
PCD7.R550M04	4 MByte flash card with 3 MByte file system
PCD7.R550M128	Flash card style R500 with 128 Mbyte
PCD7.R551M04	4 MByte flash card with 3 MByte file system
PCD7.R560; PCD7.R562	2 MByte flash card with BACnet firmware
PCD7.R580; PCD7.R582	Flash card with FW extension for LON over IP and 128MByte file system
PCD7.R6xx	µSD flash memory backup module
- Representative for the following modules:	
PCD7.R610	Basic module for µSD flash memory card

### Extension modules

PCD2.C10x	Extension unit for 8 I/O modules
PCD2.C15x	Extension unit for 4 I/O modules
PCD2.C2000	Extension unit for 8 I/O modules
PCD2.C1000	Same as PCD2.C2000, but half width (for 4 I/O modules)

### Digital Input/Output Modules

PCD1.A1000-A20	10xDO, 24VAC/VDC (12...32VDC/0.5A); 1xRS485 (S-Bus and Modbus)
PCD1.A2000-A20	6xOut, relay 230VAC / 30VDC, 16A, 1xRS485 (S-Bus and Modbus)
PCD1.B1000-A20	4xDI, 24VDC; 6Rel, NO, 230VAC / 30VDC, 4A; 4Rel, CO, 230VAC / 30VDC 4A; 1xRS485 (S-Bus and Modbus)
PCD1.B1010-A20	24xDI, 24VDC; 6Rel NO, 230VAC / 30VDC, 4A; 4Rel CO, 230VAC / 30VDC 4A; 1xRS485 (S-Bus and Modbus)

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### Digital Input/Output Modules

PCD1.B1020-A20	16xDI, 24VDC; 4Rel CO, 230VAC / 30VDC 4A; 1xRS485 (S-Bus and Modbus)
PCD1.B1100-A20	4xDI; 24VDC; 10 relays (6 NO, 4 CO); 1xRS485 (S-Bus and Modbus)
PCD1.B1120-A20	16xDI; 24VDC ; 4 relays CO; 1xRS485 (S-Bus and Modbus)
PCD1.B5000-A20	6xDI, 115...230VAC; 3xOut relay NO, 250VAC / 30VDC, 6A; 1xRS485 (S-Bus and Modbus)
PCD1.B5010-A20	6xDI, 24VAC, 50/60 Hz; 24VDC; 3xOut relay NO, 250VAC / 30VDC, 6A; 1xRS485 (S-Bus and Modbus)
PCD1.E1000-A10	12DI, 24VDC; 1xRS485 (S-Bus and Modbus)
PCD2.E11x	8 Inputs 24V DC sink/source
PCD2.E16x	16 Inputs 24V DC sink/source
PCD2.E61x	8 Inputs 24V DC opto isolated
PCD2.E500	6 Inputs 115-230V AC opto isolated
PCD2.E520	6 Inputs 24V AC opto isolated
PCD2.E523	6 Inputs 48V AC opto isolated
PCD2.A2xx	4 relay outputs 230V/2A with VDR/RC prot.
PCD2.A220	6 relay outputs 230V/2A
PCD2.A250	8 relay outputs 48V/2A
PCD2.A300	6 transistor outputs 24V/2A
PCD2.A400	8 transistor outputs 24V/0.5A
PCD2.A410	8 transistor outputs 24V/0.5A, opto isolated
PCD2.A46x	16 transistor outputs 24V/0.5A
PCD2.B100	8 combined inputs/outputs, 24V/24V/0.5A
PCD2.B160	16 inputs/outputs, (in blocks of 4 configurable)

### Analogue Input/Output Modules

PCD1.W5300-C15	4xIn, 12bit, 0...10V, +/-10V; 0(4)...20mA; Pt/Ni 1000; 4xOut, 12bit, 0...10V, 4mA max.; 1xRS485, 1xUSB, 1xNFC
PCD1.W5200-A20	8xAO, 10bit, 0...10V; 1xRS485 (S-Bus and Modbus)
PCD2.W10x	4 Inputs (0..10V, ±10V, 0..20mA, ±20mA)
PCD2.W11x	4 Inputs (Pt100, Ni100, Pt1000, Ni1000)
PCD2.W2xx	8 Inputs (0..10V, 0..20mA, Pt1000)
PCD2.W3xx	8 Inputs (0..10V, 0..20mA, PT/Ni 100, Pt1000)
PCD2.W305/315/325	7 Inputs (0..10V, 0..20mA, ±10V)
PCD2.W4xx	4 Inputs(0..10V, 0..20mA)
PCD2.W5xx	4 In/outputs(0..10V, 0..20mA)
PCD2.W525	4 analogue inputs / 2 analogue outputs (0..10V, 0..20mA)
PCD2.W6xx	4 Outputs(0..10V, ±10V, 0..20mA)
PCD2.W605/W615/W625	6/4/6 Output (0..10V, 0..20mA, ±10V)
PCD2.W7x0	1/2 analogue weighing systems for up to 4 resp. 6 weighing cells
PCD2.W745	Universal temperature measurement module for up to 4 measuring inputs, resolution 16 bits, for TC Type J & K and Pt 100/1000 & Ni 100/1000

### Combined Digital / Analogue Modules

PCD1.G360x-C15	8xDI, 24VAC/VDC; 4xAI, 12bit, Pt/Ni 1000; 4xAO, 12bits, 0...10V; 1xRS485, 1xUSB, 1xNFC
PCD1.G1100-C15	4xDI, 24VAC/VDC; 2xAO, 12bit, 0...10V; 1xRS485, 1xUSB, 1xNFC
PCD1.G2000-A20	6xUIIn: DI, 24VDC; AI, 12bit, 0...10V, Pt/Ni 1000, Ni 1000 L&S, NTC; 2xAO, 10bit, 0...10V; 2xOut, triac, 24VAC/1A or 230VAC/1A; 1xRS485 (S-Bus and Modbus)
PCD1.G2100-A10	8xUIIn: DI, 24VDC; AI, 12bit, 0...10V, Pt/Ni 1000, Ni 1000 L&S, NTC; 1xRS485 (S-Bus and Modbus)
PCD1.G2200-A20	8xUIIn: DI, 24VDC; AI, 12bit, 0...10V, Pt/Ni 1000, Ni 1000 L&S, NTC; 4xAO, 0bit, 0...10V; 1xRS485 (S-Bus and Modbus)

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### Combined Digital / Analogue Modules

PCD1.G5000-A20	16xDI, 24VDC; 4 Rel NO, 230VAC/30VDC,4A; 4Rel CO, 230VAC/30VDC, 4A; 4xAI, 12bit, 0...10V; 1xRS485 (S-Bus and Modbus)
PCD1.G5010-A20	12xDI, 24VDC; 4 Rel CO, 230VAC/30VDC,4A; 12xAI, 12bit, 0...10V, Pt/Ni 1000, Ni 1000 L&S, NTC; 8xAO, 10bit, 0...10V; 1xRS485 (S-Bus and Modbus)
PCD1.G5020-A20	8xDI, 24VDC; 4 Rel CO, 230VAC/30VDC,4A; 16xAI, 12bit, 0...10V; 4xAO, 10bit, 0...10V; 1xRS485 (S-Bus and Modbus)
PCD2.G400	4 I/O modules combined from: .W200/.W400.A400.E110
PCD2.G410	4 I/O modules combined from: .E610/.A200/.W410/.W2.xx

### Counting and Motion Control Modules

PCD2.H1xx	Counter module 20/100kHz
PCD2.H150	Serial synchronous interface (SSI) module
PCD2.T500	MP-Bus Interface (two channels)

### Serial Interface Modules

PCD1.F2611-C15	4xDI, 1xRS485, 1x aux RS485, 1xUSB, 1xNFC; up to 64 DALI ballasts
PCD7.F1xx	Serial Interface Module (where xx represents RS422/485, RS232, 20mA CL)
PCD7.F1xxS	Opto isolated, RS485 opto isolated), including new S-versions with smaller form factor:
PCD7.F110S	Serial Interface RS422/485, smaller form factor
PCD7.F121S	Serial Interface RS232, smaller form factor
PCD7.F150S	Serial Interface RS485, opto isolated, smaller form factor
PCD7.F180S	Serial Interface MP-Bus, smaller form factor
PCD2.F2100	RS 422 / RS 485 & optional PCD7.F1xx
PCD2.F2150	BACnet® MS/TP & optional PCD7.F1xxS
PCD2.F2210	RS 232 & optional PCD7.F1xx
PCD2.F2400	LONFF10 & optional PCD7.F1xxS
PCD2.F2610	DALI incl. bus power supply
PCD2.F2700	M-Bus Master interface for up to 240 slaves
PCD2.F2710	M-Bus Master interface for up to 20 slaves
PCD2.F2720	M-Bus Master interface for up to 60 slaves
PCD2.F2730	M-Bus Master interface for up to 120 slaves
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
PCD7.F700	Profibus FMS module
PCD7.F750	Profibus DP Master module
PCD7.F77x	Profibus DP Slave module
PCD7.F80x	LON module
PCD7.F65x	Ethernet module
PCD7.F7400	CAN communication extension module
PCD7.F7500	Profibus DP Master communication extension module

### 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 and RS485 Termination box
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### **Text Terminals**

PCD7.D16x Terminal, direct mounting on PCD1/PCD2

### **Accessories**

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

### **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**

PCD7.D170 Terminal via serial interface RS232  
PCD7.D202 Terminal via serial interface RS232  
PCD7.D23x (x=0,1 or 2) Terminal via serial interface RS232/RS422/RS485  
PCD7.D250 Terminal via serial interface RS232

### **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 with less I/O  
PCS1.C4xx(xxxx) Base unit as PCS1 with less I/O

Programming with Saia-PGx  
and/or with Simatic (S7-Graph, S7-HIGraph, S7, SCL, CFC)  
Operating system: Step 7  
Tests and evidence according IEC 60068-2-1/-2/-6/-30 and IEC 60092-504

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## **Manufactured by**

Saia-Burgess Controls AG  
Murten, Switzerland

## **Application/Limitation**

The Type Approval covers hardware listed under Product description.

## **Type Approval documentation**

See ANNEX

## **Marking of product**

Model name and part number: As listed under Product description  
Serial number: Unique for each delivered item

## **Other Conditions**

The units have been verified for compliance with EU Mutual Recognition Technical Requirements for "Display Monitors, Video Screens, Terminals" version 0.3, dated 2016-04-01.  
EU Mutual Recognition Technical Requirements for Computers and programmable logic controllers (PLC) version 0.3, dated 2016-04-01 have additionally been verified.

Environmental test parameters

Temperature: -25°C and 45°C

Vibration: ±1mm / 0,7g

EMC: All locations except bridge and open deck. PCD1.M2\_, PCD1.M125/M135,  
PCD2.M5\_ and PCD2.C2000 also suitable for bridge and open deck

Enclosure: Required protection according to Class Rules

## **Periodical assessment**

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed annually and at renewal of this certificate.

END OF CERTIFICATE

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**ANNEX**  
**Type Approval documentation**  
**Technical Documents**

PCD1.M2220-C15	31-100_ENG_DS_PCD1M2220-C15_E-Line_CPU, 27-640_ENG01_Manual_PCD1M2220-C15_01, Parts List: 32310927 Rev D, PWA (POWER): 463674010 Rev D; Schematic: 32306521 Rev D, PWA (CPU): 463674020 Rev C, Schematic: 32306522 Rev C, PWA (LED): 463674030 Rev C, Schematic: 32306523 Rev B, Base: 32302113 Rev C, Chassis: 32302128 Rev C	dated 2016-10 dated 2016-05-10 dated 2017-10-06 dated 2017-02-17 dated 2017-02-17 dated 2017-02-17 dated 2017-02-17 dated 2017-01-31 dated 2016-02-05 dated 2016-01-22 dated 2016-01-22
PCD1.F2611-C15	31-112_ENG_DS_PCD1F2611-C15_E-Line_DALI-RS-485, Parts List: 124466264 Rev C, PWA (Down): 463673010 Rev E, Schematic: 124466182 Rev D, PWA (Middle): 463673020 Rev C, Schematic: 124466183 Rev B, PWA (Up): 463673030 Rev A, Schematic: 124466184 Rev A, PWA (Vertical): 463673040 Rev B, Schematic: 124466185 Rev A, Base: 410477990 Rev C, Chassis: 410478140 Rev B	dated 2017-11 dated 2017-02-17 dated 2017-06-12 dated 2017-06-12 dated 2017-02-17 dated 2017-02-17 dated 2016-02-05 dated 2016-02-05 dated 2016-02-05 dated 2016-02-05 dated 2014-06-27 dated 2016-04-07
PCD1.G360x-C15	31-110_ENG_DS_PCD1G360x-C15_E-Line_room_control_module, Parts List: 32304345 Rev E, PWA (Down): 463672120 Rev C, Schematic: 124466172 Rev C, PWA (Middle): 463672130 Rev C, Schematic: 124466173 Rev C, PWA (Vertical): 463672140 Rev A, Schematic: 124466175 Rev A PWA (Up): 463672150 Rev A, Schematic: 124466174 Rev A, Base: 410478160 Rev A, Chassis: 410478150 Rev C	dated 2015-09 dated 2017-02-17 dated 2016-09-22 dated 2016-09-22 dated 2015-07-14 dated 2015-07-14 dated 2015-12-18 dated 2015-12-18 dated 2015-12-18 dated 2015-12-18 dated 2014-10-16 dated 2016-04-07
PCD1.G1100-C15	31-111_ENG_DS_PCD1G1100-C15, Parts List: 32306040 Rev C, PWA (Down): 463672410 Rev A, Schematic: 124466164 Rev A, PWA (Middle): 463672420 Rev A, Schematic: 124466165 Rev A, PWA (Up): 463672430 Rev A, Schematic: 124466166 Rev A, PWA (Vertical): 463672440 Rev B, Schematic: 124466167 Rev B, Base: 410477990 Rev C, Chassis: 410478140 Rev B	dated 2016-04 dated 2017-02-17 dated 2015-12-18 dated 2015-12-18 dated 2015-12-18 dated 2015-12-18 dated 2015-12-18 dated 2015-12-18 dated 2016-03-09 dated 2016-03-09 dated 2014-06-27 dated 2016-04-07
PCD1.W5300-C15	31-113_ENG_DS_PCD1W5300-C15_E-Line_analogue_module, Parts List: 32311638 Rev B, PWA (Down): 463672290 Rev D, Schematic: 124466168 Rev D, PWA (Middle): 463672300 Rev C, Schematic: 124466169 Rev C, PWA (Vertical): 463672320 Rev B, Schematic: 124466171 Rev B, PWA (Up): 463672430 Rev A,	dated 2015-09 dated 2017-02-17 dated 2017-02-17 dated 2017-02-17 dated 2017-02-17 dated 2017-02-17 dated 2016-01-06 dated 2016-01-06 dated 2015-12-18

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	Schematic: 124466166 Rev A, Base: 410477990 Rev C, Chassis: 410478140 Rev B	dated 2015-12-18 dated 2014-06-27 dated 2016-04-07
PCD1.A1000-A20	31-146_ENG_DS_PCD1A1000-A20_01, Parts List: 32325090 Rev B, PWA (Down): 32321300 Rev A, Schematic: 32321300_A_schematic, PWA (Up): 32321312 Rev B, Schematic: 32321312_B_schematic, Base: 32315896 Rev B, Chassis: 32315897 Rev B	dated 2017-06 dated 2018-02-21 dated 2016-12-15 dated 2016-12-15 dated 2018-02-21 dated 2018-02-21 dated 2017-12-07 dated 2017-12-07
PCD1.A2000-A20	31-147_ENG_DS_PCD1A2000-A20_01, Parts List: 32325091 Rev B, PWA (Down): 32321302 Rev A, Schematic: 32321302_A_schematic, PWA (Up): 32321312 Rev B, Schematic: 32321312_B_schematic, Base: 32315896 Rev B, Chassis: 32315897 Rev B	dated 2017-05 dated 2018-02-21 dated 2016-12-15 dated 2016-12-15 dated 2018-02-21 dated 2018-02-21 dated 2017-12-07 dated 2017-12-07
PCD1.B1000-A20 PCD1.B1010-A20	31-143_ENG_DS_PCD1B1000-A20_01, 31-144_ENG_DS_PCD1B1010-A20_02, Parts List (B1000): 124466258 Rev E, Parts List (B1010): 124466259 Rev E, PWA (Down): 463673200 Rev C, Schematic: 124466192 Rev C, PWA (Middle): 463673230 Rev C, Schematic: 124466195 Rev C, PWA (Vertical): 463673210 Rev A, Schematic: 124466193 Rev A, PWA (Up): 463673350 Rev A, Schematic: 124466190 Rev A, Base: 410478160 Rev A, Chassis: 410478150 Rev C	dated 2017-07 dated 2017-11 dated 2017-07-04 dated 2017-07-04 dated 2017-03-31 dated 2017-03-31 dated 2017-03-31 dated 2017-03-31 dated 2015-12-07 dated 2015-12-07 dated 2015-12-07 dated 2015-12-07 dated 2014-10-16 dated 2016-04-07
PCD1.B1020-A20	31-145_ENG_DS_PCD1B1020-A20_01, Parts List: 124466260 Rev E, PWA (Down): 463673220 Rev C, Schematic: 124466194 Rev C, PWA (Middle): 463673230 Rev C, Schematic: 124466195 Rev C, PWA (Vertical): 463673210 Rev A, Schematic: 124466193 Rev A, PWA (Up): 463673360 Rev A, Schematic: 124466190 Rev A Base: 410478160 Rev A, Chassis: 410478150 Rev C	dated 2017-06 dated 2017-07-04 dated 2017-03-31 dated 2017-03-31 dated 2017-03-31 dated 2017-03-31 dated 2015-12-07 dated 2015-12-07 dated 2015-12-07 dated 2015-12-07 dated 2014-10-16 dated 2016-04-07
PCD1.B5000-A20 PCD1.B5010-A20	31-148_ENG_DS_PCD1B5000-A20_01, 31-153_ENG_DS_PCD1B5010-A20, Parts List: 32325092 Rev B, PWA (Down): 32321308 Rev B, Schematic: 32321308_B_schematic, PWA (Up): 32321312 Rev B, Schematic: 32321312_B_schematic, Base: 32315896 Rev B, Chassis: 32315897 Rev B	dated 2018-05 dated 2018-04 dated 2018-02-21 dated 2018-02-21 dated 2018-02-21 dated 2018-02-21 dated 2018-02-21 dated 2017-12-07 dated 2017-12-07
PCD1.E1000-A10	31-149_ENG_DS_PCD1E1000-A10_01, Parts List: 32325093 Rev C, PWA (Down): 32321298 Rev B, Schematic: 32321298_B_schematic, Base: 32315896 Rev B,	dated 2017-06 dated 2018-02-21 dated 2017-04-02 dated 2017-04-02 dated 2017-12-07



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	Chassis: 32315897 Rev B	dated 2017-12-07
PCD1.G2000-A20	31-150_ENG_DS_PCD1G2000-A20_01, Parts List: 32325094 Rev B, PWA (Down): 32321310 Rev A, Schematic: 32321310_A_schematic, PWA (Up): 32321312 Rev B, Schematic: 32321312_B_schematic, Base: 32315896 Rev B, Chassis: 32315897 Rev B	dated 2018-05 dated 2018-02-21 dated 2016-12-19 dated 2016-12-19 dated 2018-02-21 dated 2018-02-21 dated 2017-12-07 dated 2017-12-07
PCD1.G2100-A10 PCD1.G2200-A20	31-154_ENG_DS_PCD1G2100-A10, 31-151_ENG_DS_PCD1G2200-A20_01, Parts List (G2100): 32325094 Rev B, Parts List (G2200): 32325095 Rev C, PWA: 32321306 Rev C, Schematic: 32321306_C_schematic, PWA (Up): 32321312 Rev B, Schematic: 32321312_B_schematic, Base: 32315896 Rev B, Chassis: 32315897 Rev B	dated 2018-05 dated 2018-05 dated 2018-02-21 dated 2018-03-05 dated 2018-03-05 dated 2018-03-05 dated 2018-02-21 dated 2018-02-21 dated 2017-12-07 dated 2017-12-07
PCD1.G5000-A20	31-140_ENG_DS_PCD1G5000-A20_01, Parts List: 124466261 Rev E, PWA (Down): 463673200 Rev C, Schematic: 124466192 Rev C, PWA (Middle): 463673190 Rev C, Schematic: 124466191 Rev C, PWA (Vertical): 463673210 Rev A, Schematic: 124466193 Rev A, PWA (Up): 463673180 Rev A, Schematic: 124466190 Rev A, Base: 410478160 Rev A, Chassis: 410478150 Rev C	dated 2018-05 dated 2017-07-04 dated 2017-03-31 dated 2017-03-31 dated 2017-03-31 dated 2017-03-31 dated 2015-12-07 dated 2015-12-07 dated 2015-12-07 dated 2015-12-07 dated 2014-10-16 dated 2016-04-07
PCD1.G5010-A20	31-141_ENG_DS_PCD1G5010-A20_02, Parts List: 124466262 Rev E, PWA (Down): 463673220 Rev C, Schematic: 124466194 Rev C, PWA (Middle): 463673240 Rev B, Schematic: 124466196 Rev B, PWA (Vertical): 463673210 Rev A, Schematic: 124466193 Rev A, PWA (Up): 463673370 Rev A, Schematic: 124466190 Rev A, Base: 410478160 Rev A, Chassis: 410478150 Rev C	dated 2018-05 dated 2017-07-04 dated 2017-03-31 dated 2017-03-31 dated 2017-02-17 dated 2017-02-17 dated 2015-12-07 dated 2015-12-07 dated 2015-12-07 dated 2015-12-07 dated 2014-10-16 dated 2016-04-07
PCD1.G5020-A20	31-142_ENG_DS_PCD1G5020-A20_02, Parts List: 124466263 Rev E, PWA (Down): 463673220 Rev C,	dated 2018-05 dated 2017-07-04 dated 2017-03-31
	Schematic: 124466194 Rev C, PWA (Middle): 463673250 Rev B, Schematic: 124466197 Rev B, PWA (Vertical): 463673210 Rev A, Schematic: 124466193 Rev A, PWA (Up): 463673380 Rev A, Schematic: 124466190 Rev A Base: 410478160 Rev A Chassis: 410478150 Rev C	dated 2017-03-31 dated 2015-12-07 dated 2015-12-07 dated 2015-12-07 dated 2015-12-07 dated 2015-12-07 dated 2015-12-07 dated 2014-10-16 dated 2016-04-07

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PCD1.W5200-A20	31-152_ENG_DS_PCD1W5200-A20_01, Parts List: 32325096 Rev B, PWA (Down): 32321304 Rev A, Schematic: 32321304_A_schematic, PWA (Up): 32321312 Rev B, Schematic: 32321312_B_schematic, Base: 32315896 Rev B, Chassis: 32315897 Rev B	dated 2017-06 dated 2018-02-21 dated 2016-12-19 dated 2016-12-19 dated 2018-02-21 dated 2018-02-21 dated 2017-12-07 dated 2017-12-07
PCD2.B160	27-601_ENG_Manual_PCDxB160_I-O-Module, Parts List: 124466112 Rev C, PWA: 463671800 Rev E, Schematic: 124466098 Rev C,	dated 2018-01-31 dated 2014-09-23 dated 2015-01-26 dated 2016-11-27
PCD2.F2150	27-649_ENG_Manual_PCD2F2xxx, Parts List: 124465979 Rev E, F2150_BACnet MS_TP, PWA: 463669870 Rev F; Schematic: 124465978 Rev D	dated 2018-02-08 dated 2014-09-23 dated 2018-04-26 dated 2017-04-07 dated 2016-11-27
PCD2.F2400	F2400_LON FTT10, Parts List: 124466181 Rev B PWA: 463672380 Rev C; Schematic: 124466145 Rev B	dated 2018-04-26 dated 2016- 01-29 dated 2015-12-18 dated 2016-11-27
PCD2.F2610	27-606_EN_Manual_PCD2F2610-PCD3F261_DALI, 31-042_ENG_Flyer_DALI-Extract-from-System-catalogue, Parts List: 124466114 Rev D, PWA: 463671830 Rev G, Schematic: 124466099 Rev E	dated 2015-01-20 dated 2015-09 dated 2018-05-18 dated 2017-04-07 dated 2016-02-01
PCD2.F2700	27-603_EN_Manual_M-Bus-Module_PCD2F27x-PCD3F27xx, 27-635_EN_Manual_PCD2G200_01, Parts List: 124466095 Rev D, PWA: 463671600 Rev F; Schematic: 124466084 Rev B	dated 2014-06-06 dated 2014-02-18 dated 2014-09-23 dated 2017-04-07 dated 2016-11-27
PCD2.G200	31-001_EN_DS_PCD2G200_01, Parts List: 124466178 Rev -, PWA: 463672720 Rev B; Schematic: 124466161 Rev A	dated 2013-12-13 dated 2014-09-23 dated 2016-03-17 dated 2016-11-27
PCD2.H11x	26-507_ENG_DS_FastCounterModul, Parts list: 124466051 Rev B, PWA (H112): 463670860 Rev A, PWA (H114): 463670870 Rev C, Schematic: 124466050 Rev A	dated 2016-12 dated 2014-09-23 dated 2014-06-27 dated 2017-02-17 dated 2016-11-27
PCD2.M4x60	27-648_ENG_Manual_PCD2M4x60, 31-048_ENG_Flyer_PCD2M4x60, Parts List: 32313584 Rev D, PWA (Bus): 32306058 Rev A, Schematic: 32306058_A_schematic, PWA (CPU): 32306060 Rev D; Schematic: 32306060_C_Schematic, Base: 410472370 Rev C,	dated 2017-03-08 dated 2016-04 dated 2017-07-04 dated 2015-11-03 dated 2015-11-03 dated 2017-07-04 dated 2017-07-04 dated 2016-02-03
	Housing side: 410477340 Rev -, Housing cover: 32311745 Rev A	dated 2014-06-27 dated 2016-02-03
PCD7.W600	26-046_ENG_Leaflet_PCD7W600_Coloured, 26-599_EN02_DS_PCD7W600, 26-875_EN06_Manual_PCD1M2_CC-2014-02-07_dpi300, Parts List: 124466159 Rev A, PWA: 463672700 Rev A, Schematic: 124466158 Rev A	dated 2017-06 dated 2014-04-10 dated 2014-02-07 dated 2014-09-23 dated 2014-10-16 dated 2016-01-26

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**Test Reports**

PCD1 PCD2 PCD7	A-EPC-011, Rev. 1 dated 93-03-03, MP-EPCD2-021/022 dated 94-01-31, MP-EPC D1-001 dated 98-02-18, MP-EPCD1-005 Rev.0 dated 97-02-27, MP-EPCD1-006 Rev.0 dated 97-04-04, MP-EPCD1-007 Rev.0 dated 97-04-21, MP-EPCD1-008 Rev.0 dated 97-04-21, MP-EPCD2-024 dated 95-05-24, MP-EPCD2-033 Rev.0 dated 97-06-06, QNL 3087/93/009 dated 93-12-07, 10 342 dated 94-01-21	
PCD1 PCD2	MP-EPCD2-044/-36/-45/-031/-059/-061/-067/-064/-070/-073/-074, MP-EPCD7-021/-22/-030, RUAG Nr.5159, 4./5.Feb.2002, - Montena EMC no. 12916, 25.1.2002, Nr.13157, Nov.2002, Hansecontrol-L0552-02 PCD7L9xx Vario-Plus, LB-EPCD7-011 - No. GL-PCD1.DOC (27.04.98); GL_PCD4_99: DOC (02/99), - STS 024 No. 13157dated 28-11-2002; 12'916 dated 25-01-2002, - L0552-02 d; No. 09036-MP_TATR-PCD2.M5 dated 19-04-2010; - 10013-DXGL_TAC_6843794 and 10014-DX-GL_TAC_6843794	Documentation for renewal 2003, updated at renewal 2009
PCD2	- General test report no.: 09036-MP_DNV_TATR-PCD2M5_ dated 2010-02-01 - RUAG 6258_1e test report for PCD2.M5540_C dated 2009-03-06 - RUAG 6139_1e test report for PCD2.M5540 dated 2008-05-14 - 10004-MP_DNV_TATR-PCD2C2000 dated 2010-03-22 - Lab Work Completed_E160970-19950331-TestRec-DS1_DielectricVoltage_PCD2M5xxx_C2000 dated 2009-08-19 - RUAG 6276_1e test report for PCD2_M5540_C and PCD2.C2000 dated 2009-04-14 - Montena test report "Immunity against conducted RF disturbances" dated 2010-03-10 - Saia_Immun_EM-80M-3GHz dated 2010-03-05 - MP-EPCD2-059/-061/-074/-083/-084/-086/-087/-089 - MP-EPCD4-037/-043/-045, MP-EPCS1-001/-005, RUAG 5257 - MP-EPCD1-011 Rev.02 dated 29-09-2005 and 10021-DXGL_TAC_6843794; - LB-EPCD1_004 Rev. 01 dated 19-11-2004; No. 10004-MP_TATRPCD2 C2000 dated 22-03-2010 - Montena 13545, QUINEL-U452-01-06_PCD1M1xx-Vibration_270297.pdf - MPPD2090_W745_Test_Summary_Report_Rev01.doc - MPPD2085_BurstPCD2W745.pdf, MP-EPCD2-081_PCD2.W745.pdf	Documentation for renewal 2005/2006, updated at renewal 2009 and 2010
PCD1.M2_	Type Approval Test Report (overview): 12002-MP_TATR_PCD1M2XXX, dated 2012-09-18 -20120489_Saia_PCD1M2120, dated 2012-06-05 -6830 Version1 -Testreport_Power_Supply_Variation_PCD1_M2120_D1, dated 2012-06-11 -Testreport_Electrostatic_Discharge_ESD_PCD1_M2120_D1, dated 2012-06-11 -PCD_M2120_D1_A400_con_4, dated 2012-06-05 -PCD1.M2xx_Serie \$C_Surge test, dated 2012-08-20 -12013-MP_PCD1M2120_Ship-Approval-Conducted-LF-Immunity, dated 2012-08-29 -12009-MP_PCD1M2120_Ship-Approval-Temperature-Test, dated 2012-08-10 -11010-MP_PCD1M2120_Temperatur-Test, dated 2011-02-12 -11009-MP_PCD1M2120_EMC-Immunity_BurstTest, dated 2011-10-21	Documentation for Extension 2013 for PCD1M2_

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<b>PCD1.M2220-C15 (CPU)</b>		
TATR	15008-MP-PCD1.M2220-C15_ShipApprovals	dated 2015-10-12
RUAG (Vibration & Shock)	RUAG 7505e Saia_Burgess_Controls_Module_PCD2_PCD1	dated 2015-11-09
RUAG (Vibration & Shock)	RUAG 7375-2e_Saia_Burgess_Controls_PCD1.M2220	dated 2015-02-25
Montena	MES_Saia_13-MO-0070_PCD1.M2220-C15_CE_No_Ethernet_2015-09-21	dated 2015-09-21
Montena	MES_Saia_13-MO-0070_PCD1.M2220-C15_CI_2015-09-29	dated 2015-09-29
	Äquivalenzbetrachtung	dated 2021-03-29
	Äquivalenz_PCD1.M2120_BOM_2011_12	dated 2011-12-12
	Äquivalenz_PCD1.M2220_BOM_2017_01	dated 2017-09-15
	Äquivalenz_PCD1.M2120_Schema_2015_06	dated 2015-06-03
	Äquivalenz_PCD1.M2220_Schema_2017_01	dated 2017-01-17
	MES_Saia_19CH-00015_PCD.M96_2020-01-23_Rev01_6GHz	dated 2020-01-23
<b>PCD1.F2611-C15 (Communication)</b>		
TATR	14026-MP-PCD1.F2611-C15_ShipApprovals	dated 2015-01-21
RUAG (Vibration & Shock)	RUAG 7017_Saia_Burgess_Module_E_Line	dated 2013-04-25
Montena	MES_Saia_13-MO-0070_PCD1.F2611-C15_2014-12-04	dated 2014-12-04

<b>PCD1.G360x-C15 (Digital/Analog)</b> <b>PCD1.G1100-C15 (Digital/Analog)</b> <b>PCD1.G2000-A20</b> <b>PCD1.G2100-A10</b> <b>PCD1.G2200-A20</b> <b>PCD1.G5000-A20</b> <b>PCD1.G5010-A20</b> <b>PCD1.G5020-A20</b>		
TATR	15003-MP-PCD1G5000-A20_ShipApproval	dated 2015-05-28
TATR	15004-MP-PCD1G5010-A20_ShipApproval	dated 2015-05-28
TATR	15005-MP-PCD1G5020-A20_ShipApproval	dated 2015-05-28
RUAG (Vibration & Shock)	RUAG 7017_Saia_Burgess_Module_E_Line	dated 2013-04-25
RUAG (Vibration & Shock)	RUAG 7375_1e_Saia_Burgess_PCD_Module	dated 2015-02-25
Montena	MES_Saia_13-MO-0070_PCD1.F2611-C15_2014-12-04	dated 2014-12-04
Montena	MES_Saia_13-MO-0070_PCD1.G5000_2014-07-03&10.pdf	dated 2014-07-10
Montena	MES_Saia_13-MO-0070_PCD1.G5000-A20_B1000-A20_B1020-A20_2014-12-16	dated 2014-12-16
Montena	MES_Saia_13-MO-0070_ElectrolinePCD1.G50x0-A20_2014-12-16	dated 2014-12-16
Montena	MES_Saia_13-MO-0070_Eline RIO_2016-11-16	dated 2016-11-16

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Montena	MES_Saia_13-MO-0070_Eline RIO_2016-11-25	dated 2016-11-25
PMM Saia	PMM NARDA Report_CondEmis_PCD1-B5000_G2000_G2200_W5200	dated 2016-12-01
<b>PCD1.W5300-C15 (Analog I/O)</b>		
<b>PCD1.W5200-A20</b>		
TATR	15006-MP-PCD1W5300_C15_ShipApprovals	dated 2015-09-25
RUAG (Vibration & Shock)	RUAG 7017_Saia_Burgess_Module_E_Line	dated 2013-04-25
Montena	MES_Saia_13-MO-0070_PCD1.W5300-C15_2015-03-05 (10m)	dated 2015-03-05
Montena	MES_Saia_13-MO-0070_Eline RIO_2016-11-25	dated 2016-11-25
Montena	MES_Saia_13-MO-0070_Eline RIO_2016-11-16	dated 2016-11-16
PMM Saia	PMM NARDA Report_CondEmis_PCD1-B5000_G2000_G2200_W5200	dated 2016-12-01

<b>PCD1.B1000-A20</b>		
<b>PCD1.B1010-A20</b>		
<b>PCD1.B1020-A20</b>		
<b>PCD1.B1100-A20</b>		
<b>PCD1.B1120-A20</b>		
<b>PCD1.B5000-A20</b>		
<b>PCD1.B5010-A20</b>		
TATR	15001-MP-PCD1B1000-A20_ShipApproval	dated 2015-03-02
TATR	15002-MP-PCD1B1020-A20_ShipApproval	dated 2015-05-28
PMM Saia	PMM NARDA REPORT Ship_CondEmis_PCD1-B1120	dated 2018-10-19
RUAG (Vibration & Shock)	RUAG 7017_Saia_Burgess_Module_E_Line	dated 2013-04-25
RUAG (Vibration & Shock)	RUAG 7375_1e_Saia_Burgess_PCD_Module	dated 2015-02-25
RUAG (Vibration & Shock)	RUAG U18EC-7977 E-Line RIO PCD1.B11x0	dated 2018-11-02
Montena	MES_Saia_13-MO-0070_PCD1.G5000-A20_B1000-A20_B1020-A20_2014-12-16	dated 2014-12-16
Montena	MES_Saia_13-MO-0070_Eline RIO_2016-11-25	dated 2016-11-25
Montena	MES_Saia_17-MO-0278_PCD1.B1100-A20_2018-07-19	dated 2018-07-19
Montena	MES_Saia_17-MO-0278_PCD1.B1120-A20_2018-09-27	dated 2018-09-27
PMM Saia	PMM NARDA Report_CondEmis_PCD1-B1100	dated 2018-08-21
PMM Saia	PMM NARDA Report_Ship_CondEmis_PCD1-B1100	dated 2018-08-21
PMM Saia	PMM NARDA Report_CondEmis_PCD1-B1120	dated 2018-10-19
PMM Saia	PMM NARDA Report_Ship_CondEmis_PCD1-B1120	dated 2018-10-19
PMM Saia	PMM NARDA Report_CondEmis_PCD1-B5000_G2000_G2200_W5200	dated 2016-12-01
PMM Saia	PMM NARDA Report_Ship_CondEmis_PCD1-B5000_G2000_G2200_W5200	dated 2016-12-06
PMM Saia	PMM NARDA Report_CondEmis_PCD1-B5010	dated 2018-04-05
PMM Saia	PMM NARDA Report_Ship_CondEmis_PCD1-B5010	dated 2018-04-05

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**MRA Documents**

	Äquivalenzbetrachtung_PCD-CPU_6_GHz-Messung.docx MES_Saia_19CH-00015_PCD3.M96_2020-01-23_Rev01 RUAG no. 7474 RUAG no. 6880	dated 2020-11-23 dated 2020-01-23 dated 2015-09-10 dated 2012-09-11
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## Generic Statement for EU RO MR Type Approval Certificate

When a product is presented with this EU RO MR Type Approval Certificate for given application, its acceptability with regards to the limitations stated in the certificate conditions defined in 1b, 1c and 1d of the applied Technical Requirement will be evaluated by the EU RO in charge of classing the ship or being in charge of the unit/system certification.

In accordance with Article 10 of Regulation (EC) No 391/2009 of the European Parliament and of the Council of 23 April 2009 "on common rules and standards for ship inspection and survey organizations", the following organizations, recognized by the EU on this date, have agreed on the technical and procedural conditions under which they will mutually recognize this certificate:

- American Bureau of Shipping (ABS);
- Bureau Veritas (BV);
- China Classification Society (CCS);
- Croatian Register of Shipping (CRS);
- DNV GL;
- Indian Register of Shipping (IRS);
- Korean Register (KR);
- Lloyd's Register Group Ltd. (LR);
- Nippon Kaiji Kyokai General Incorporated Foundation (ClassNK);
- Polish Register of Shipping (PRS);
- RINA Services S.p.A. (RINA);
- Russian Maritime Register of Shipping (RS).

The scheme for the mutual recognition of class certificates for materials, equipment and components laid down by Article 10(1) of Regulation (EC) No 391/2009 is only enforceable within the Union in respect of ships flying the flag of a Member State. As far as foreign vessels are concerned, the acceptance of relevant certificates remains at the discretion of relevant non-EU flag States in the exercise of their exclusive jurisdiction, notably under the United Nations Convention on the Law of the Sea (UNCLOS). (In accordance with COMMISSION IMPLEMENTING REGULATION (EU) No 1355/2014 amending Regulation (EC) No 391/2009 - recital (25)).