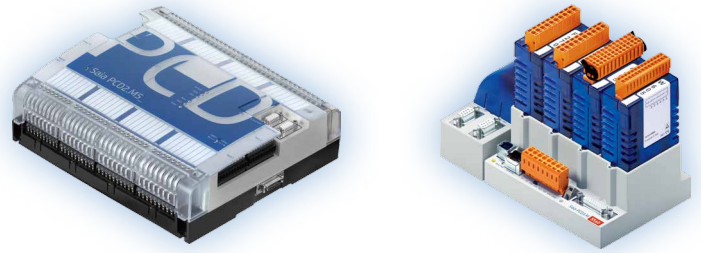
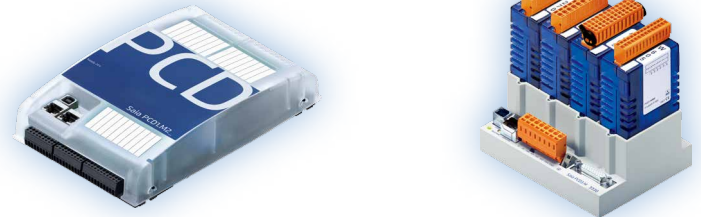


Analogue Input / Output Modules for Saia PCD1, PCD2 and PCD3 Series



Measurement and generation of analogue signals

The family of the analogue modules PCD2/3.W3x5 and PCD2/3.W6x5 offers top performance on a small space. Use of a fast on-board micro controller allows decoupling and relief of the PCD regarding intensive computing tasks, such as scaling and filtering of signal data.



Module types

PCD2/3.W305	0...10V	Input Module with galvanic isolation*	(7 channel, 12 Bit resolution)
PCD2/3.W315	0(4)...20 mA	Input Module with galvanic isolation*	(7 channel, 12 Bit resolution)
PCD2/3.W325	±10V	Input Module with galvanic isolation*	(7 channel, 12 Bit resolution)
PCD2/3.W605	0...10V	Output Module with galvanic isolation*	(6 channel, 10 Bit resolution)
PCD2/3.W615	0(4)...20 mA	Output Module with galvanic isolation*	(6 channel, 10 Bit resolution)
PCD2/3.W625	±10V	Output Module with galvanic isolation*	(6 channel, 10 Bit resolution)

* galvanic separation of outputs to PCD, the channels themselves are not separated against each other

Pin configuration:

PCD2/3.W3x5 analogue Input Modules

13	12	11	10	9	8	7	6	5	4	3	2	1	0
-	E6	-	E5	-	E4	-	E3	-	E2	-	E1	-	E0

Inputs 0...6 with separate negative connection

Pin configuration:

PCD2/3.W6x5 analogue Output Modules

13	12	11	10	9	8	7	6	5	4	3	2	1	0
-	+	-	A5	-	A4	-	A3	-	A2	-	A1	-	A0

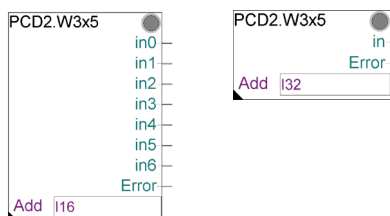
↑ Outputs 0...5 with separate negative connection, W615: A5 and A4 not connected

W615 only: Feed for current outputs (electrically connected to field side)

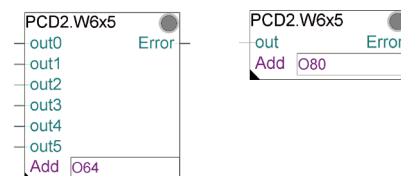
Software configuration | Elements of the Fupla library:

- For the modules PCD2/3.W3x5 and PCD2/3.W6x5 exists a FBox with which the module parameters may be changed and the modules may be integrated into Fupla programs

FBox PCD2.W3x5 (1...8 inputs selectable)



FBox PCD2.W6x5 (1...6 outputs selectable)



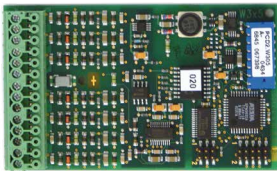
Technical data

Features

- ▶ 500 V electrical isolation of signal inputs and outputs from PCD supply
- ▶ Scaling of signal data on-board (amplification and offset correction)
- ▶ Free setting of parameters to define module functionality
- ▶ Integral module identification

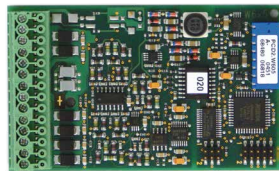
Operating temperature:	0...55°C	
Temperature coefficient:	± 0,01 %/K	
Sampling time module:	2ms	
Accuracy (at 25°C)	W3x5 W605/625 W615	± 0,15% / ± 6 LSB ± 0,40% / ± 4 LSB ± 0,60% / ± 6 LSB
Input protection	W305/325 W315	± 40 V ± 35 mA
Output protection	W6x5	Short circuit
Cut off frequency	W3x5 W6x5	65 Hz 300 Hz

PCD2.W305



Dimensions: 52 × 86 mm

PCD2.W605



Dimensions: 52 × 86 mm

PCD3.W305



Dimensions: 56 × 97 mm

PCD3.W605



Dimensions: 56 × 97 mm

Ordering information

Type	Description	Weight
PCD2.W305	Analogue input module with galvanic isolation, 7 inputs, 12 bits, 0...10 V	55 g
PCD3.W305	Analogue input module with galvanic isolation, 7 inputs, 12 bits, 0...10 V	80 g
PCD2.W315	Analogue input module with galvanic isolation, 7 inputs, 12 bits, 0(4)...20 mA	55 g
PCD3.W315	Analogue input module with galvanic isolation, 7 inputs, 12 bits, 0(4)...20 mA	80 g
PCD2.W325	Analogue input module with galvanic isolation, 7 inputs, 12 bits, ±10 V	55 g
PCD3.W325	Analogue input module with galvanic isolation, 7 inputs, 12 bits, ±10 V	80 g
PCD2.W605	Analogue output module with galvanic isolation, 6 outputs, 10 bits, 0...10 V	60 g
PCD3.W605	Analogue output module with galvanic isolation, 6 outputs, 10 bits, 0...10 V	80 g
PCD2.W615	Analogue output module with galvanic isolation, 4 outputs, 10 bits, 0(4)...20 mA	60 g
PCD3.W615	Analogue output module with galvanic isolation, 4 outputs, 10 bits, 0(4)...20 mA	80 g
PCD2.W625	Analogue output module with galvanic isolation, 6 outputs, 10 bits, ±10 V	60 g
PCD3.W625	Analogue output module with galvanic isolation, 6 outputs, 10 bits, ±10 V	80 g

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