

# PCD3.W220

Analog input module, 8 channel, 10 bit, Pt / Ni1000



### Description

With its short conversion time of <50  $\mu$ s, this module is universally suitable for recording analogue signals. The only limitations are with weak signals, as with Pt100 resistive temperature sensors, or with thermocouples.

Technical specifications			
Number of inputs (channels)	8		
Signal range	Pt / Ni1000		
Resolution (representation)	10 bit (0 1023)		
Galvanic separation	no		
Measuring principle	non-differential, single-ended		
Input resistance	7.5 kΩ / 0.1 %		
Accuracy (of measured value)	± 3 LSB		
Repeating accuracy (under same conditions)	within 1 LSB		
Temperature error (0 +55 °C)	± 0.3 % (± 3 LSB)		
Conversion time A/D	≤ 50 µs		
Overvoltage protection	± 50 VDC		
Burst protection (IEC1000-4-4)	$\pm$ 1 kV, with unshielded cables $\pm$ 2 kV, with shielded cables		
Time constant of input filter	typisch 10 ms		
Internal current consumption (from +5 V bus)	8 mA		
Internal current consumption (from V+ bus)	16 mA		
External current consumption	0 mA		
Terminals	Pluggable 10-pole spring terminal block for Ø up to 2.5 mm <sup>2</sup> , plug type A		



PCD3.W220

#### Indicators and connections



#### **Block diagram**



#### Connection concept for Pt / Ni1000

The input signals are connected directly to the 10-pole terminal block (E0 ... E7 and COM). To minimize the amount of interference coupled into the module via the transmission lines, connection should be made according to the principle explained below.

#### Connection for Pt / Ni1000



## Configuration

The evaluation is performed by the firmware. It reads the values according to the configuration (Device Configurator or Network Configurator). Solution of the configurator of the configurator). Solution of the configurator of Network Configurator). Solution of the configurator of Network Configurator). Solution of the configurator of Network Configurator. Power Consumption SV [ma] is	Eva	aluation	
(Device Configurator or Network Configurator).         Image: Properties         Slot 2 : PCD3.W220, 8 Analogue Inputs, Pt/NI 1000         ✓ General         BaseAddress       32         Connector Type       Type A, Spring Terminals 10-pole         Power Consumption V+ [mA]       16         ✓ Media Mapping Enabled       No         Media Type       Register         Number Of Media       8         ✓ Analogue Input 0       4000         Media Type       Pt 1000 (-50+400*C)         Minimum Value Input 0       4000         ✓ Analogue Input 1       500         Maximum Value Input 1       4000         ✓ Analogue Input 2       2000         ✓ Analogue Input 3       500         Maximum Value Input 2       2000         ✓ Analogue Input 3       500         Maximum Value Input 3       2000         ✓ Analogue Input 4       400         ✓ Masimum Value Input 3       2000         ✓ Analogue Input 4       400         ✓ Masimum Value Input 5       -600         Maximum Value Input 4       2400         ✓ Analogue Input 5       1001 L&S (-60+240*C)         Minimum Value Input 5       2400         ✓ Analogue	Th It r	e evaluation is performe eads the values accordi	d by the firmware. ng to the configuration
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in3 in4 in5 in6	An FB	IPUT 7 Range lect the range for the analogue input FBox "PCD2/3.W2" exi ox for PCD3.W220 (Inp PCD2/3.W2	sts for evaluation. uts 07 selectable) PCD2/3.W2 Add16
in3 in4 in5 in6	An FB	IPUT 7 Range lect the range for the analogue input FBox "PCD2/3.W2" exi ox for PCD3.W220 (Inp 'CD2/3.W2 in0	sts for evaluation. puts 07 selectable) PCD2/3.W2 in0- Add 116
in4	An FB	Put 7 Range let the range for the analogue input FBox "PCD2/3.W2" exi ox for PCD3.W220 (Inp CD2/3.W2	sts for evaluation. puts 07 selectable) PCD2/3.W2 in0- Add 116
in5 in6	An FB	Put 7 Range let the range for the analogue input FBox "PCD2/3.W2" exi ox for PCD3.W220 (Inp CD2/3.W2	sts for evaluation. outs 07 selectable) PCD2/3.W2 in0- Add 116
in6-	An FB	PUT 7 Range let the range for the analogue input FBox "PCD2/3.W2" exi ox for PCD3.W220 (Inp "CD2/3.W2" in0 in1 in1 in3 in4	sts for evaluation. outs 07 selectable) PCD2/3.W2 Add
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	An FB	Put 7 Range let the range for the analogue input FBox "PCD2/3.W2" exi ox for PCD3.W220 (Inp CD2/3.W2 in0 in1 in2 in3 in4 in5 in6 in7	sts for evaluation. puts 07 selectable) PCD2/3.W2 in0- Add 116

Saia Qron Engineeri	ox ECS ng and Commisioning Su	ite
PCD-System	Evaluation	
IEC- Controller	The evaluation is performed by the firmwa values according to the configuration (Dev	re. It reads the rice Configurator)
	Desc         Desc         By Data         By Data         Desc	
	■ Others (Solid)         Page           ■ Others (Solid)         ■ Others           ■ Others         ■ Others           ■ Others         ■ Others           ■ Others         ■ Others           ● NOPERA         ■ Others	A A A A A A A A A A A A A A A A A A A
	Parameter Parameter	
	Mapping Interference of the second s	
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?	Watchdog:	This module can interact with the watchdog, if it is used on base address 240. For details, please refer to the manual "27-600_I/O-modules for PCD1 / PCD2 series and for PCD3" in chapter "A4 Hardware Watchdog", which describes the correct use of the watchdog together with PCD components.	
	Watchdog:	This does not apply when used in PCD3.M6893.	
•	I/O modules and I/O terminal blocks may only be plugged in and removed when the Saia PCD <sup>®</sup> and the external +24 V are disconnected from the power supply.		
i	Further informatic "27-600 ENG Mar	on can be found in the document: nual I/O-Modules for PCD1 / PCD2 and PCD3"	



#### ATTENTION

These devices must only be installed by a professional electrician, otherwise there is the risk of fire or the risk of an electric shock.



#### WARNING

Product is not intended to be used in safety critical applications, using it in safety critical applications is unsafe.



#### **WARNING - Safety**

The unit is not suitable for the explosion-proof areas and the areas of use excluded in EN61010 Part 1.



#### WARNING - Safety

Check compliance with nominal voltage before commissioning the device (see type label). Check that connection cables are free from damage and that, when wiring up the device, they are not connected to voltage. Do not use a damaged device!



## NOTE

In order to avoid moisture in the device due to condensate build-up, acclimatise the device at room temperature for about half an hour before connecting.



#### CLEANING

The device can be cleaned in dead state with a dry cloth or cloth soaked in soap solution. Do not use caustic or solvent-containing substances for cleaning.



#### MAINTENANCE

These devices are maintenance-free. If damaged, no repairs should be undertaken by the user.



#### **GUARANTEE**

Opening the module invalidates the guarantee.

Observe this instructions (data sheet) and keep them in a safe place. Pass on the instructions (data sheet) to any future user.



WEEE Directive 2012/19/EC Waste Electrical and Electronic Equipment directive The product should not be disposed of with other household waste. Check for the nearest authorized collection centers or authorized recyclers. The correct disposal of end-of-life equipment will help prevent potential negative consequences for the environment and human health.



EAC Mark of Conformity for Machinery Exports to Russia, Kazakhstan or Belarus.





PCD3.W220

4 405 4954 0

Ordering information				
Туре	Short description	Description	Weight	
PCD3.W220	8 analogue inputs Pt / Ni1000, 10 bit	Analogue input module, 8 inputs (channels), resolution 10 bit, signal range Pt / Ni1000, (the channels themselves not separated), connection with pluggable spring terminals, plug-in type A (4 405 4954 0) included	80 g	

Ordering information equipment				
Туре	Short description	Description	Weight	
4 405 4954 0	Plug-in, type A	Plug-in I/O spring terminal block, 10-pole up to 2.5 mm², labelled 0 9	15 g	

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