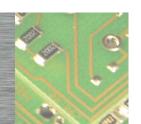


# PCD3.W210

Analog input module, 8 channel, 10 bit, 0...20 mA (4...20 mA via software)



# **Description**

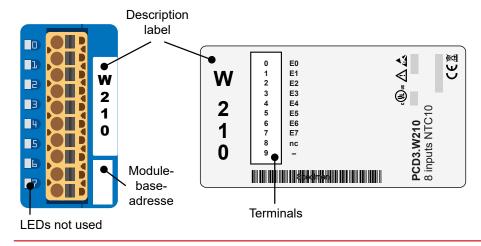
Fast, analog 8 channel input module with 0...20 mA (4...20 mA via software) and 10 bit resolution per channel. With its short conversion time of <50  $\mu$ s, this module is universally suitable for recording analogue signals.

Technical specifications		
Number of inputs (channels)	8	
Signal range	020 mA (420 mA via Software)	
Resolution (representation)	10 bit (0 1023)	
Galvanic separation	no	
Measuring principle	non-differential, single-ended	
Input resistance	125 Ω / 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	
Overcurrent protection	± 40 mA	
Burst protection (IEC1000-4-4)	± 1 kV, with unshielded cables ± 2 kV, with shielded cables	
Time constant of input filter	typically 1 ms	
Internal current consumption (from +5 V bus)	8 mA	
Internal current consumption (from V+ bus)	5 mA	
External current consumption	0 mA	
Terminals	Pluggable 10-pole spring terminal block for $\varnothing$ up to 2.5 mm², plug type A	

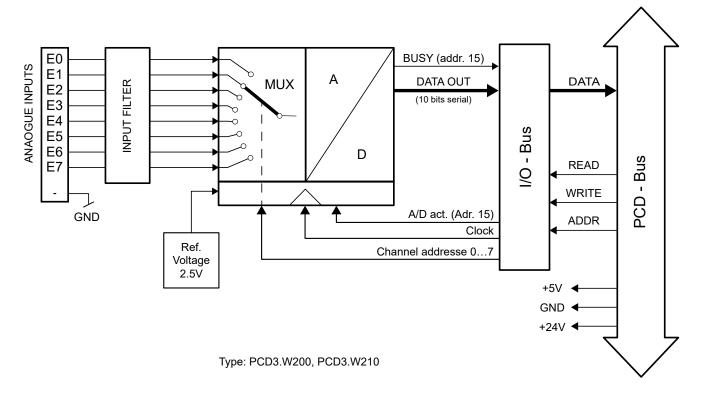


PCD3.W210

# **Indicators and connections**



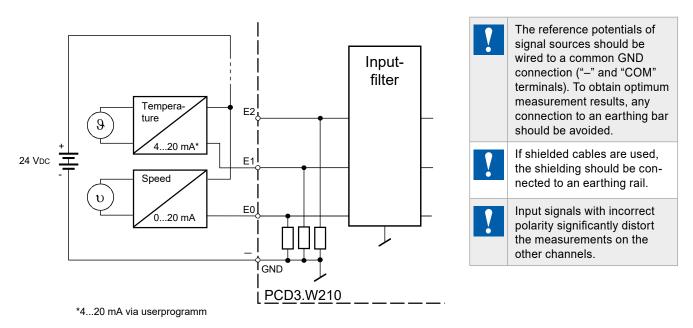
### **Block diagram**



# Connection concept for two-wire transmitter

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.

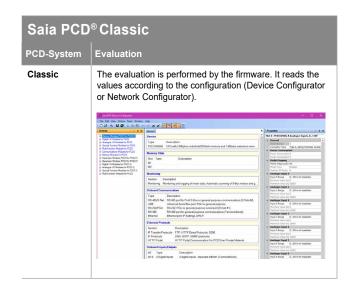
#### Connection for 0...20 mA two-wire transmitter

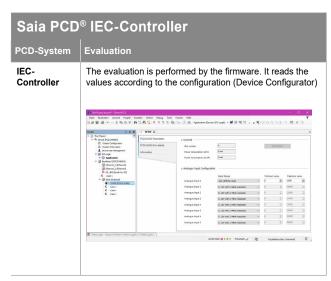


Two-wire transducers (0...20 mA and 4...20 mA transmitters) need a 24 VDC supply in the measuring trunk.

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# Configuration





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I/O modules and I/O terminal blocks may only be plugged in and removed when the Control Edge PCD and the external +24 V are disconnected from the power supply.







4 405 4954 0

Ordering information				
Туре	Short description	Description	Weight	
PCD3.W210	8 analogue inputs 020 mA, 10 bit	Analogue input module, 8 inputs (channels), resolution 10 bit, signal range 020 mA (420 mA via software), 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



# **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 0used 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 during, no repairs should be undertaken by the user.



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.

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#### Sales and Service

For application assistance, current specifications, pricing, or name of the nearest Authorized Distributor, contact one of the offices below.

**ASIA PACIFIC** 

Honeywell Process Solutions,

(TAC) <a href="mailto:hfs-tac-support@honeywell.com">hfs-tac-support@honeywell.com</a>

**Australia** 

Honeywell Limited

Phone: +(61) 7-3846 1255 FAX: +(61) 7-3840 6481 Toll Free 1300-36-39-36

Toll Free Fax: 1300-36-04-70

China - PRC - Shanghai

Honeywell China Inc. Phone: (86-21) 5257-4568 Fax: (86-21) 6237-2826

Singapore

Honeywell Pte Ltd. Phone: +(65) 6580 3278 Fax: +(65) 6445-3033

South Korea

Honeywell Korea Co Ltd Phone: +(822) 799 6114 Fax: +(822) 792 9015 **EMEA** 

Honeywell Process Solutions, Phone: +80012026455 or +44 (0)1344 656000

Email: (Sales)

FP-Sales-Apps@Honeywell.com

or

(TAC) <a href="mailto:hfs-tac-support@honeywell.com">hfs-tac-support@honeywell.com</a>

**AMERICA'S** 

Honeywell Process Solutions, Phone: (TAC) 1-800-423-9883 or 215/641-3610

(Sales) 1-800-343-0228

Email: (Sales)

FP-Sales-Apps@Honeywell.com

or

(TAC) hfs-tac-support@honeywell.com

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Specifications are subject to change without notice.

**Process Solutions** 

Honeywell

1250 W Sam Houston Pkwy S Houston, TX 77042

Honeywell Control Systems Ltd Honeywell House, Skimped Hill Lane Bracknell, England, RG12 1EB

Shanghai City Centre, 100 Jungi Road Shanghai, China 20061 ©2020 Honeywell International Inc.

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