

PCD2.W220

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



Description

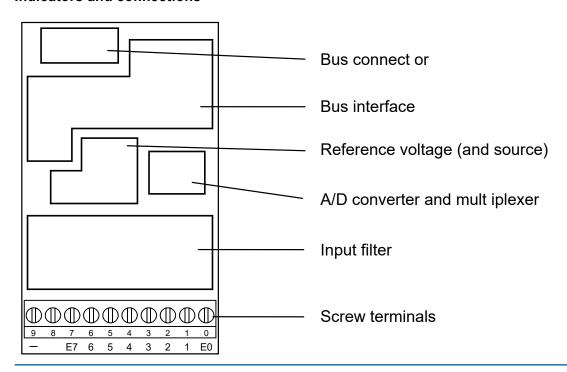
With its short conversion time of $<50 \mu s$, this module is universally suitable for recording analogue signals. The only limitations are with weak signals, as with Pt100 resistive temperature sensors, or with thermocouples.



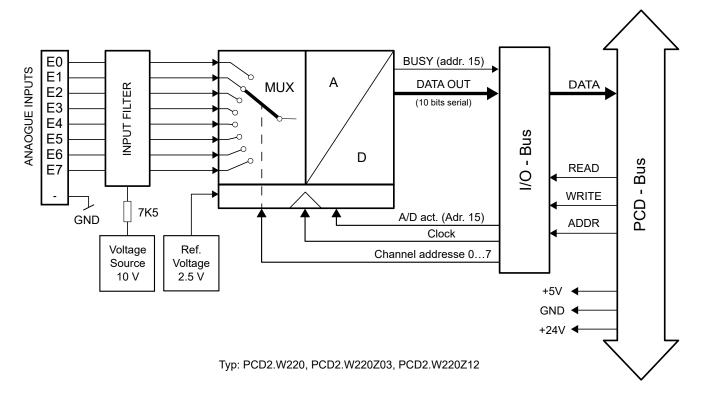
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Technical specificat	ions
Number of inputs (channels)	8
Signal range	Pt / Ni1000
Resolution (representation)	10 bit (0 1023)
Galvanic separation	no
Measuring principle	non-differential, single-ended
Input resistance	7.5 kΩ / 0.1 %
Accuracy (of measured 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)	± 1 kV, with unshielded cables ± 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 screw terminal block (4 405 4847 0), for wires up to 1.5 mm², plug type L

Indicators and connections

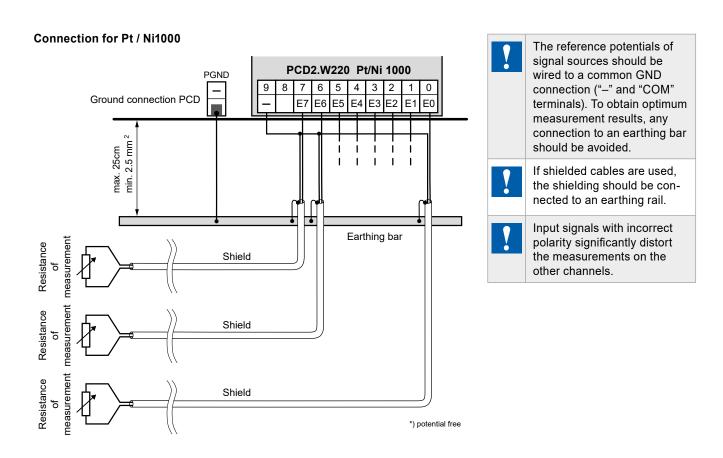


Block diagram

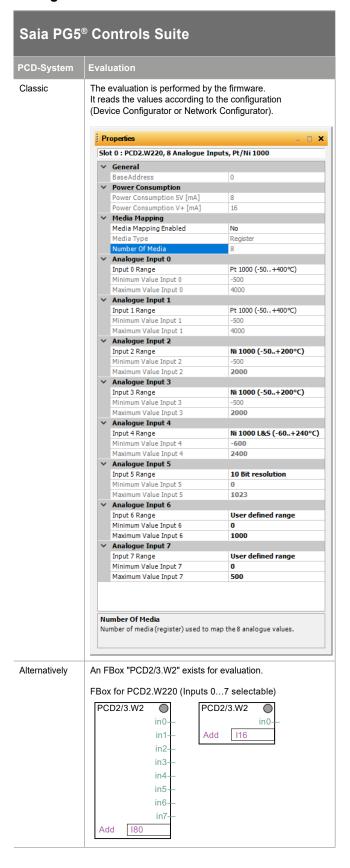


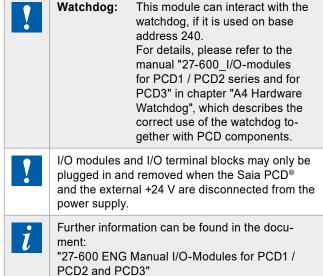
Connection concept for Pt / Ni1000

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.



Configuration







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.

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.





PCD2.W220

4 405 4847 0

Ordering information				
Туре	Short description	Description	Weight	
PCD2.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 L (4 405 4847 0) included	40 g	

Ordering information equipment				
Туре	Short description	Description	Weight	
4 405 4847 0	Plug-in, type L	Plug-in screw terminal block 10-pole up to 1.5 mm² for I/O module, labelling 09	7 g	

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