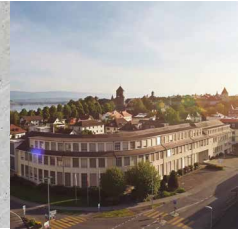


PCD3.W600

Analog output module,
4 channel, 12 Bit, 0 ... 10 V



High-speed output module for general use with 4 channels, each with 12 bit resolution and voltage 0 ... 10 V.

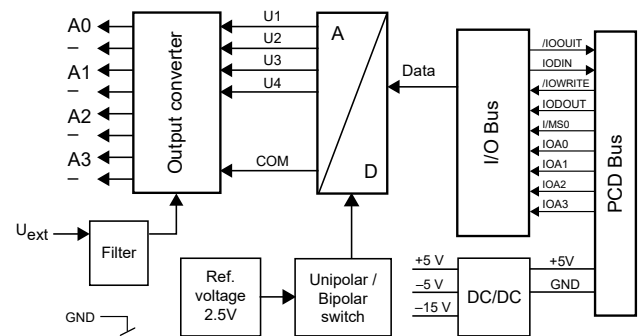


PCD3.W600

Technical specifications

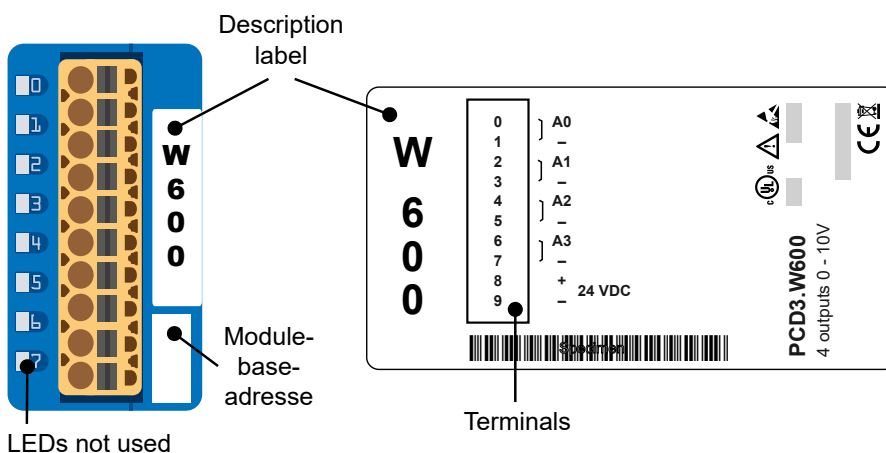
Number of outputs (channels)	4, short circuit protected
Signal range	0 ... 10 V
Resolution (representation)	12 bit (0 ... 4095)
Resolution (value of least significant bit[LSB])	2.442 mV
Galvanic separation	no
Conversion time A/D	typically 10 µs
Load impedance	Voltage: > 3 kΩ
Repeating accuracy (under same conditions)	Voltage: ± 0.5 %
Temperature error (over temperature range 0 ... +55 °C)	Voltage: ± 0.1 %
Internal current consumption (from +5 V bus)	max. 4 mA
Internal current consumption (from V+ bus)	max. 20 mA
External current consumption	0 mA
Terminals	Pluggable 10-pole spring terminal block for Ø up to 2.5 mm ² , plug type A (4 405 4954 0)

Block schematic



Typ: PCD3.W600, PCD3.W610

Indicators and connections



LED	Output
0	O0
1	O1
2	O2
3	O3



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



Watchdog ..

.. in classic system

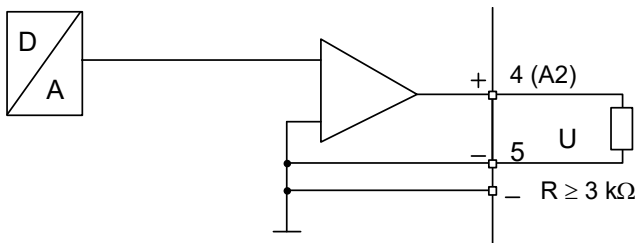
The watchdog with his address 255 can influence this module if it is used at the base address 240.

.. in IEC-controller system

is not affected

Principle diagram of analog outputs

Output connection for 0 ... 10 V



During start-up, a voltage of 5 V is sent to all outputs of the W600 module. The start-up phase lasts 40 ms, then 0 V is sent to the outputs.

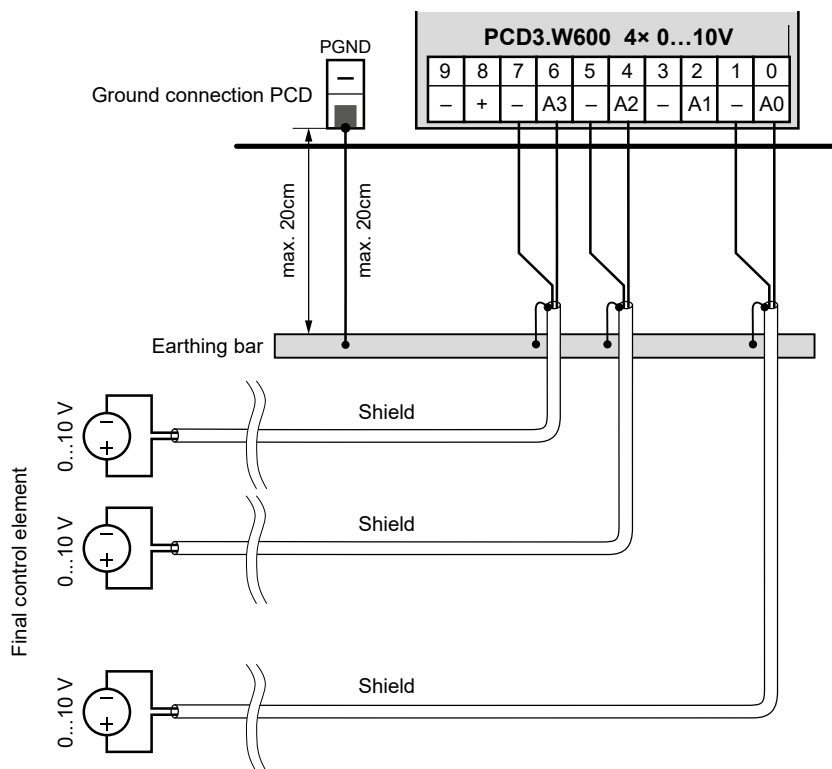


The external power supply of 24 VDC at terminals 8 and 9 is not required.

Connection concept

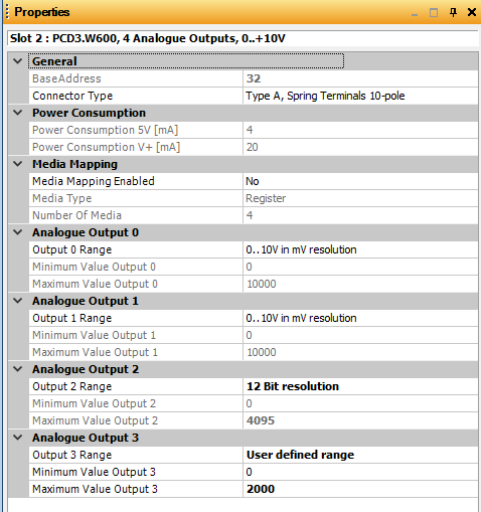
The voltage input signals are connected directly to the 10-pole terminal block. To minimize the amount of interference coupled into the module via the transmission lines, connection should be made according to the principle explained below.

Connection for 0 ... 10 V

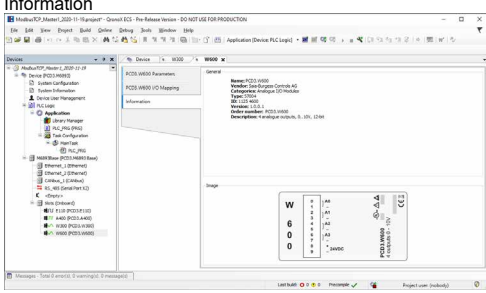
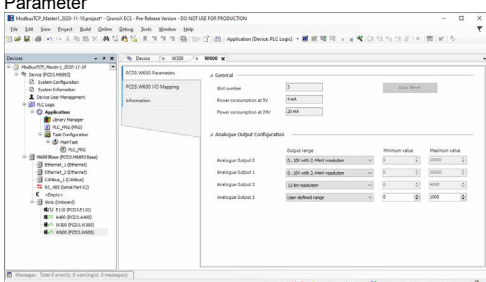
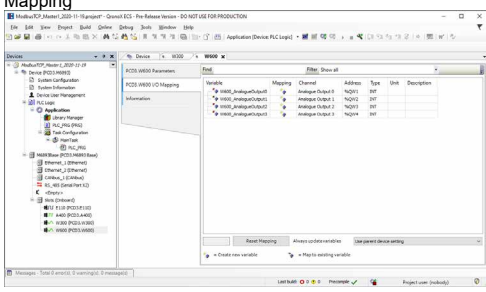


Configuration

Saia PG5® Controls Suite

PCD-System	Evaluation
Classic	<p>The evaluation is performed by the firmware. It reads the values according to the configuration (Device Configurator or Network Configurator).</p> 
Alternatively	<p>An FBox "PCD2/3.W2" exists for evaluation. FBox for PCD3.W600 (Inputs 0...7 selectable)</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="268 1041 422 1220" style="border: 1px solid black; padding: 5px;"> <p>PCD2/3.W6</p> <p>-o0</p> <p>-o1</p> <p>-o2</p> <p>-o3</p> <p>Add <input type="text" value="180"/></p> </div> <div data-bbox="475 1041 630 1131" style="border: 1px solid black; padding: 5px;"> <p>PCD2/3.W6</p> <p>-o0</p> <p>Add <input type="text" value="180"/></p> </div> </div>

Saia Qronox ECS Engineering and Commissioning Suite

PCD-System	Evaluation																																			
IEC-Controller	<p>The evaluation is performed by the firmware. It reads the values according to the configuration (Device Configurator)</p>																																			
<h3>Information</h3> 																																				
<h3>Parameter</h3> 																																				
<h3>Mapping</h3>  <table border="1" style="margin-top: 10px;"> <thead> <tr> <th>Variable</th> <th>Mapping</th> <th>Channel</th> <th>Address</th> <th>Type</th> <th>Unit</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>*% analog_analogOutput0</td> <td>analogOutput0</td> <td>0</td> <td>10201</td> <td>SPF</td> <td></td> <td></td> </tr> <tr> <td>*% analog_analogOutput1</td> <td>analogOutput1</td> <td>1</td> <td>10202</td> <td>SPF</td> <td></td> <td></td> </tr> <tr> <td>*% analog_analogOutput2</td> <td>analogOutput2</td> <td>2</td> <td>10203</td> <td>SPF</td> <td></td> <td></td> </tr> <tr> <td>*% analog_analogOutput3</td> <td>analogOutput3</td> <td>3</td> <td>10204</td> <td>SPF</td> <td></td> <td></td> </tr> </tbody> </table>		Variable	Mapping	Channel	Address	Type	Unit	Description	*% analog_analogOutput0	analogOutput0	0	10201	SPF			*% analog_analogOutput1	analogOutput1	1	10202	SPF			*% analog_analogOutput2	analogOutput2	2	10203	SPF			*% analog_analogOutput3	analogOutput3	3	10204	SPF		
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*% analog_analogOutput3	analogOutput3	3	10204	SPF																																

**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 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.



PCD3.W600



4 405 4954 0

Ordering information

Type	Short description	Description	Weight
PCD3.W600	4 analogue outputs, 12 bit. 0 ... 10 V	Analogue output modules, 4 inputs (channels), resolution 12 bit, signal range 0 ... 10 V. The channels themselves not separated. Connection with pluggable spring terminals, plug-in type A (4 405 4954 0) included	80 g

Ordering information equipment

Type	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 mm ² , labelled 0 ... 9	15 g

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Honeywell | Partner Channel