

PCD2.W400

Analog output module, 4 channels, 8 bit, 0...10 V



Description

High-speed output module with 4 output channels of 8 bits each. Suitable for processes in which a large number of actuators have to be controlled, such as in the chemical industry and building automation.



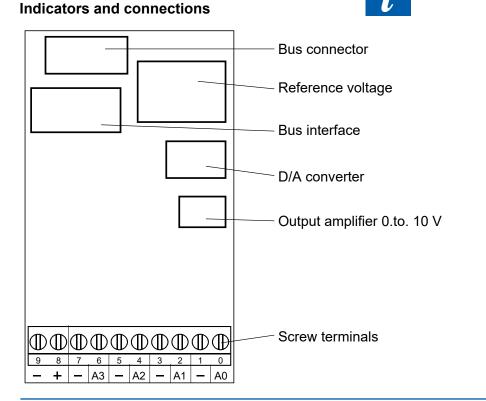
PCD2.W400

Technical specifications			
Number of outputs (channels)	4, short circuit protected		

Signal range selectable with jumpers	voltage 010 V	
Resolution (digital representation)	8 bits (0255)	
Conversion time D/A	≤ 5 µs	
Galvanic separation	no	
Load impedance	for 0 10 V ≥3 kΩ	
Accuracy (of output value)	for 0 10 V 1 % ± 50 mV	<i>'</i>
Residual ripple	for 0 10 V <15 mV pp	
Temperature error (across tempe- rature range 0 +55 °C)	typ. ±0.2 %	
Burst protection (IEC 801-41)	± 1 kV, with unshielded cables ± 2 kV, with shielded cables	
Internal current consumption (from +5 V bus)	1 mA	
Internal current consumption (from V+ bus)	30 mA	
External current consumption	max. 0.1 A	
Terminals	Pluggable 10-pole spring termi for $Ø$ up to 2.5 mm ² , plug type L (4 405 4847 0)	nal block

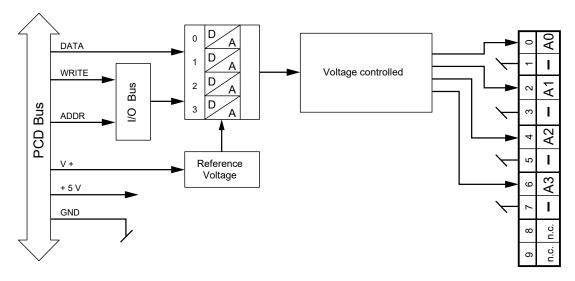


The external 24 VDC power supply is not required.



LED	Output
0	O0
1	01
2	O2
3	O3

Block schematic





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.

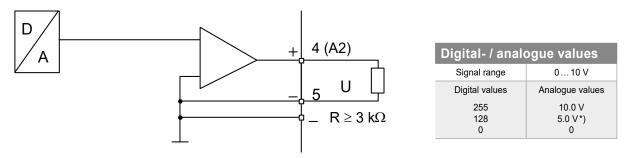
Watchdog

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.

This does not apply when used in PCD3.M6893.

Principle diagram of analog outputs

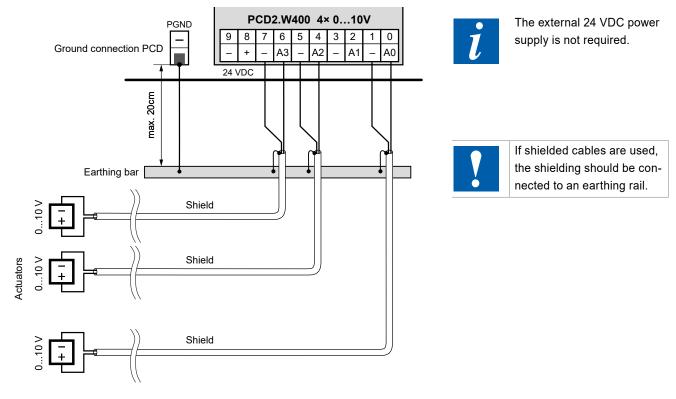
Output connection for 0 ... 10 V



Connection concept for voltage outputs

The actuators 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

)-System Eval	uation	
It rea	evaluation is performed by ads the values according to	the configuration
(Dev	vice Configurator or Network	Configurator).
i P	roperties	-
	ot 1 : PCD2.W400, 4 Analogue Ou	
		itputs, 0+10v
×	General	16
	BaseAddress	16
×	Power Consumption	
	Power Consumption 5V [mA]	1
	Power Consumption V+ [mA]	30
~	Media Mapping	Ne
	Media Mapping Enabled	No
	Media Type	Register
	Number Of Media	4
×	Analogue Output 0	a saut u lut
	Output 0 Range	010V in mV resolution
	Minimum Value Output 0	10000
	Maximum Value Output 0	10000
×	Analogue Output 1	0 10V is all see hits
	Output 1 Range	010V in mV resolution
	Minimum Value Output 1	•
	Maximum Value Output 1	10000
×	Analogue Output 2	0.01
	Output 2 Range	8 Bit resolution
	Minimum Value Output 2	0
	Maximum Value Output 2	255
×	Analogue Output 3	
	Output 3 Range	User defined range
	Minimum Value Output 3	0
	Maximum Value Output 3	1000
	u mber Of Media umber of media (register) used to n	nap the 4 analogue values.
FBo	-o0 Adc	03 selectable) D2/3.W4



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.W400



4 405 4847 0

Honeywell | Partner Channel

Ordering information				
Туре	Short description	Description	Weight	
PCD2.W400	4 analogue outputs, 8 bits, 0…10 V	Analogue output module, 4 output (channels), resolution 8 bits, signal range $0\dots 10$ V, per channel with jumper selectable, connection with pluggable spring terminals, plug-in type L (4 405 4847 0) included	40 g	

Ordering inf	ormation 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 mm ² for I/O module, labelling 09	7 g

Saia-Burgess Controls AG Bahnhofstrasse 18 | 3280 Murten, Switzerland T +41 26 580 30 00 | F +41 26 580 34 99 www.saia-pcd.com

support@saia-pcd.com | www.sbc-support.com

Subjects to change without notice.