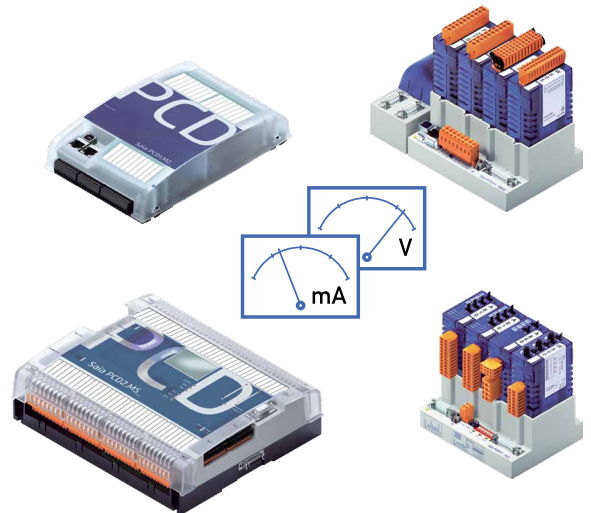


Analogue combined I/O modules PCD2/3.W525 for PCD1 / 2 / 3



The analogue combined modules PCD2/3.W525 offer top performance on a small space. Use of a fast on-board micro controller allows decoupling and relief of the PCD regarding intensive computing tasks, such as scaling and filtering of signal data.

Features of input channels

4 analogue input channels, 14 bit resolution

- channels can be individually configured for: 0...10 V, 0...20 mA, 4...20 mA, Pt/Ni 1000, Pt 500
- Differential voltage and current measurement, common mode voltage : ±50 V
- Selectable filtering options: Fast mode, 50/60 Hz rejection, Auto Filter

Configuration operation mode of inputs

On		Voltage mode: 0...10 V
Off		
On		Current mode: 0...20 mA 4...20 mA
Off		
On		Temperature mode: Pt 1000 (-50...400°C) Pt 500 (-50...400°C) Ni 1000 (-60...200°C)
Off		
		Resistor mode: 0...2500 Ohm

Setting of input channels

Features of output channels

2 analogue output channels, 12 bit resolution:

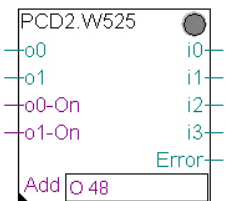
- channels can be individually configured for: 0...10 V, 0...20 mA, 4...20 mA

Galvanic separation between :

- I/O channels and PCD I/O Bus, the channels themselves are not separated against each other

Configuration operation mode of outputs

The outputs are configured by software (with the corresponding FBox or FB). There is no need to configure the operation mode of the outputs with any kind of jumpers or DIP-Switches.



Setting of output channels

Pin configuration

PCD2/3.W525 analogue combined input/output module

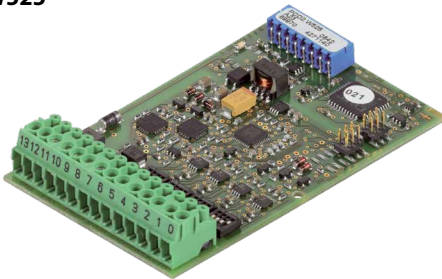
Supply		Outputs				Inputs							
13	12	11	10	9	8	7	6	5	4	3	2	1	0
-	+	-	+	-	+	-	+	-	+	-	+	-	+
Uext		01		00		13		12		11		10	

Technical data

Number of I/O	4 inputs/2 outputs	
Signal range	Inputs	0...10 V/0...20 mA/4...20 mA Pt 1000: -50...400 °C/Pt 500: -50...400 °C/ Ni 1000: -60...200 °C
	Outputs	0...10 V/0...20 mA/4...20 mA
Resolution	Inputs	14 bits
	Outputs	12 bits
Kind of measurement	differential	
Galvanic isolation	to PCD	yes
	to external supply	yes
	between channels	no
Setting input/output channels	by Software	
Configuration operation mode	Inputs	by DIP-Switches
	Outputs	by software (FBox, FB)
Filter for Inputs	Time constant of hardware filter	2 ms
	Attenuation of software based 50 Hz Filter	min. 40 dB, 20 ms
	Attenuation of software based 60 Hz Filter	min. 40 dB, 16.67 ms
Filter for Outputs	Time constant of hardware filter	1 ms
Operating temperature	0...55° C	
Accuracy at 25 °C	± 0.2% max.	

External power supply :
it is possible to use the same power supply as for the PCD without losing the galvanic isolation of the I/O's!

PCD2.W525



PCD3.W525



Ordering information

Type	Description	Dimensions	Weight
PCD2.W525	Analogue combined input/output module with galvanic isolation 4 inputs, 14 bits, 0...10 V, 0(4)...20 mA, Pt 1000, Pt 500 or Ni 1000 2 outputs, 12 bits, 0...10 V or 0(4)...20 mA	52×86 mm	55 g
PCD3.W525	Analogue combined input/output module with galvanic isolation 4 inputs, 14 bits, 0...10 V, 0(4)...20 mA, Pt 1000, Pt 500 or Ni 1000 2 outputs, 12 bits, 0...10 V or 0(4)...20 mA	56×97 mm	80 g

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