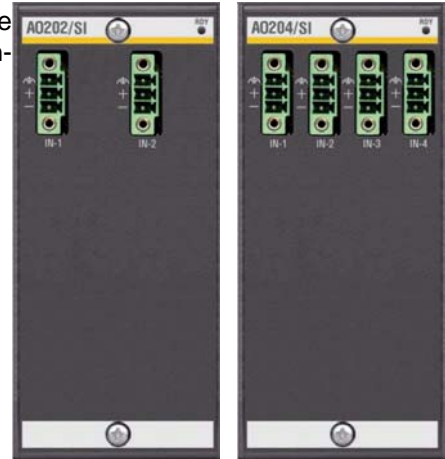


Using the AO20x/SI analog output modules signals can be sent to low impedance inputs of other devices (e.g. drive controllers, servo valves etc.).



## Features

- ▶ 2 or 4 analog output channels, 0 .. 20mA
- ▶ differential outputs
- ▶ 12 Bit resolution
- ▶ Output channels individually isolated
- ▶ Output channels isolated towards bus
- ▶ Internalt power supply via backplane BS2xx
- ▶ Status indicator: yellow LED for Ready (RDY)

Each terminal unit can use as many analog output modules as slots are available. All combinations containing AI20x/SI and other I/O modules are possible. Limitation may be given through limited capacity of power supply.

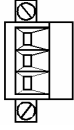

Analog output module	AO202/SI	AO204/SI
Channels	2	4
Output range	0 .. 20mA	
Short circuit protection	yes, continuously	
Output impedance	max. 500 Ω	
Resolution	12 Bit	
LSB value	0,0015% of output range (300nA)	
Temperature range	0 .. 60 °C	
Error @ 25 °C	max. ± 0.2% of output range	
Error, full temperature range	max. ± 0.6% of output range	
Linearity error	max. ± 0,06% of output range	
settling time up to 0,1% output range	max. 3ms	
cross-talk attenuation between the channels	DC: min. 100 dB 50-60 Hz: min 100 dB	
Isolation between channels	yes, up to 500 V	
Isolation towards bus	yes, up to 500 V	
Internal power supply	internally via backplaneBS2xx	
Power consumption via backplane	400 mA / 5 V DC	500 mA / 5 V DC



**attention:** To maintain the interference stability and signal quality the maximum cable length of all signal lines must not exceed 30 m!

## Pin assignment

### External power supply

Stecker 1/2/3/4	Pin	Signal	Beschreibung	Kanal			
				1	2	3	4
	1		AGND	1	2	3	4
	2	+	External power +20mA	1	2	3	4
	3	-	External power 0mA	1	2	3	4

## Order Codes for Modules and Accessories

Order code	Order #	Description
RMAO204	0067580.001	Analog output module 4 Kanal 0..20mA
RMAO202	0067582.001	Analog output module 2 Kanal 0..20mA
RMKZAO204	0067581.001	Terminal set for analog output modules 4 channels 0..20mA
RMKZAO202	0067583.001	Terminal set for analog output modules 2 channels 0..20mA

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