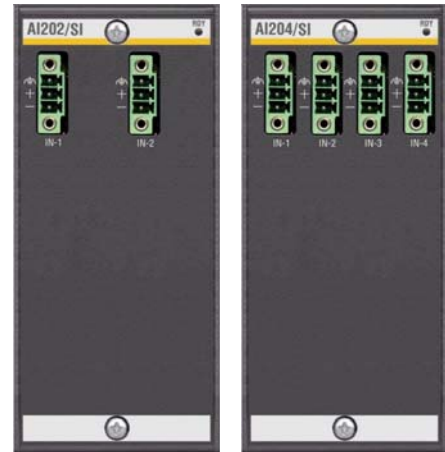


Using the analog input modules AI20x/SI signals can be acquired from with high accuracy.



Merkmale

- ▶ 2 or 4 analog input channels, 0 .. 20mA
- ▶ differential inputs
- ▶ resolution approx. 14 Bit
- ▶ input channels separately isolated
- ▶ inputs are isolated towards bus
- ▶ internal power supply via backplane BS2xx
- ▶ Status indicator: yellow LED for Ready (RDY)

Each terminal unit can use as many analog inputs 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.

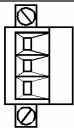

Analog input module	AI202/SI	AI204/SI
Number of inputs	2	4
Input range	0 .. 20mA	
Input type	differential	
Input impedance	75 Ω	
Digital resolution	ca. 14 Bit	
LSB value	509nA (Vref = 2,5V on 75 Ω Shunt)	
Temperature range	0 .. 60 °C	
Error at 25 °C	max. ± 0,1 % of input range	
Error, full temperature range	max. ± 0,5 % of input range	
Linearity error	max. ± 0,04% of input range	
Input filter	lowpass 1. order, time const. = 1ms, f _q = 159Hz	
CMRR	50 Hz: > 60 dB	
cross-talk attenuation between the channels	> 100 dB	
Sampling rate	Max. 6 samples/s / channel (165ms per measurement)	
Isolation between channels	yes, up to 500 V	
Isolation towards bus	yes, up to 500 V	
Internal power supply	internally via backplane BS2xx	
Power consumption from backplane	300 mA / 5 V DC	400 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

Connector 1/2/3/4	Pin	Signal	Description	Channel			
				1	2	3	4
	1		GND	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
RMAI204	0067570.001	Analog input module 4 channels 0..20mA
RMAI202	0067572.001	Analog input module 2 channels 0..20mA
RMKZAI204	0067571.001	Terminal set for analog input module 4 channels 0..20mA
RMKZAI202	0067573.001	Terminal set for analog input modules 2 channels 0..20mA

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