

A.5.2 SM 1231 analog input (AI)

Table A- 32 SM 1231 analog inputs (AI)

Technical data	SM 1231 AI 4 x 13 bit	SM 1231 AI 8 x 13 bit	SM 1231 AI 4 x 16 bit
Article number (MLFB)	6ES7 231-4HD32-0XB0	6ES7 231-4HF32-0XB0	6ES7 231-5ND32-0XB0
Number of inputs	4 inputs (AI)	8 inputs (AI)	4 inputs
Type	Voltage or current (differential), selectable in groups of 2	Voltage or current (differential), selectable in groups of 2	Voltage or current (differential)
Dimensions W x H x D (mm)	45 x 100 x 75	45 x 100 x 75	45 x 100 x 75
Weight	180 grams	180 grams	180 grams
Power dissipation	1.5 W	1.5 W	1.8 W
Current consumption (SM Bus)	80 mA	90 mA	80 mA
Current consumption (24 VDC)	45 mA	45 mA	65 mA

A.5.3 SM 1232 analog output (AQ)

Table A- 33 SM 1232 analog outputs (AQ)

Technical data	SM 1232 AQ 2 x 14 bit	SM 1232 AQ 4 x 14 bit
Article number (MLFB)	6ES7 232-4HB32-0XB0	6ES7 232-4HD32-0XB0
Number and type of outputs	2 outputs (AQ)	4 outputs (AQ)
Dimensions W x H x D (mm)	45 x 100 x 75	45 x 100 x 75
Weight	180 grams	180 grams
Power dissipation	1.5 W	1.5 W
Current consumption (SM Bus)	80 mA	80 mA
Current consumption (24 VDC)	45 mA (no load)	45 mA (no load)

A.5.4 SM 1234 analog input/output (AI/AQ)

Table A- 34 SM 1234 combination analog input / output (AI / AQ)

Technical data	SM 1234 AI 4 x 13 bit / AQ 2 x 14 bit
Article number (MLFB)	6ES7 234-4HE32-0XB0
Number of inputs	4 inputs (AI)
Type	Voltage or current (differential), selectable in groups of 2
Number of outputs	2 outputs (AQ)
Type	Voltage or current (differential)
Dimensions W x H x D (mm)	45 x 100 x 75
Weight	220 grams
Power dissipation	2.0 W
Current consumption (SM Bus)	80 mA
Current consumption (24 VDC)	60 mA (no load)

A.5.5 Wiring diagrams for SM 1231 (AI), SM 1232 (AQ), and SM 1234 (AI/AQ)

Table A- 35 Wiring diagrams for the analog SMs

SM 1231 AI 8 x 13 bit	SM 1232 AQ 4 x 13 bit	SM 1234 AI 4 x 13 bit / AQ2 x 14 bit