



SIMATIC S7-200 SMART, Analog input SM AI04, 4 AI, 4xAI thermocouples

General information	
Product type designation	SM AT04, AI TC 4x16 bit
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Input current	
Current consumption, typ.	30 mA; Current consumption of 24 V DC user power
Current consumption, max.	40 mA; at 20.4 V DC and max. load
from backplane bus 5 V DC, typ.	70 mA; For 5 V DC from CPU module
from backplane bus 5 V DC, max.	80 mA
Power loss	
Power loss, typ.	1.5 W
Analog inputs	
Number of analog inputs	4
Input ranges	
• Voltage	No
• Current	No
• Thermocouple	Yes
• Resistance thermometer	No
• Resistance	No
Analog outputs	
Number of analog outputs	0
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	16 bit
Dimensions	
Width	45 mm
Height	100 mm
Depth	81 mm
Weights	
Weight, approx.	125 g

last modified: 8/23/2023 