

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	
Classifications		
	Version	Classification
eClass	14	27-24-22-01
eClass	12	27-24-22-01
eClass	9.1	27-24-22-01
eClass	9	27-24-22-01
eClass	8	27-24-22-01
eClass	7.1	27-24-22-01
eClass	6	27-24-22-01
ETIM	10	EC001420
ETIM	9	EC001420
ETIM	8	EC001420
ETIM	7	EC001420

IDEA	4	3562
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval



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