MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6ES7288-3AE04-0AA0

SM AI04 FOUR-CHANNEL ANALOG INPUT MODULE

Used with the applicable SIMATIC S7-200 SMART configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Complete official manufacturer PDF follows this cover.

Source: Siemens official technical documentation for 6ES7288-3AE04-0AA0

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Data sheet 6ES7288-3AE04-0AA0

SIMATIC S7-200 SMART, Analog input SM AI04, 4 AI, 0...10V,0...5V, +/-5 V, +/-2.5 V, or 0/4-20 mA 11 bit + sign (12 bit ADC)



CiR – Configuration in RUN	
Reparameterization possible in RUN	No
Supply voltage	
Rated value (DC)	
• 24 V DC	Yes; -15 / +20 %
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption, typ.	40 mA
from backplane bus 5 V DC, typ.	80 mA
Power loss	
Power loss, typ.	1.5 W
Analog inputs	
Number of analog inputs	4
Input ranges	
• Voltage	Yes; ±10V, ±5V, ±2.5V
• Current	Yes; 0 to 20 mA

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Input ranges (rated values), voltages	
• -10 V to +10 V	Yes
• Input resistance (-10 V to +10 V)	9 MΩ
• -2.5 V to +2.5 V	Yes
• Input resistance (-2.5 V to +2.5 V)	9 MΩ
• -5 V to +5 V	Yes
• Input resistance (-5 V to +5 V)	9 MΩ
Input ranges (rated values), currents	
• 0 to 20 mA	Yes
• Input resistance (0 to 20 mA)	250 Ω

Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
• Resolution (incl. overrange)	voltage mode: 11 bit + sign bit, current mode: 11 bit
• Interference voltage suppression for interference frequency f1 in Hz	10 / 50 / 60 / 400 Hz
Smoothing of measured values	
• parameterizable	Yes; In 4 stages: 1x, 4x, 16x, 32x cycle time
• Step: None	Yes; 1x
• Step: low	Yes; 4x
• Step: Medium	Yes; 16x
• Step: High	Yes; 32x

Interrupts/diagnostics/status information	
Diagnostic functions	Yes
Diagnostic messages	
• Monitoring the supply voltage	Yes
• Wire-break	No
• Short-circuit	No
Diagnostics indication LED	
• for status of the inputs	Yes

Degree and class of protection	
Degree of protection acc. to EN 60529	
• IP20	Yes

Standards, approvals, certificates	
CE mark	Yes

Dimensions	
Width	45 mm
Height	100 mm
Depth	81 mm

Weights	
Weight, approx.	147 g

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