



Figure similar

*** spare part *** SIMATIC S7-200, analog input EM 231, only for S7-22X CPU, 8 AI, 0-10V DC, max 2 AI 0..20 mA 12/11-bit converter

Input current	
from load voltage L+ (without load), max.	60 mA
from backplane bus 5 V DC, max.	20 mA
Power loss	
Power loss, typ.	2 W
Analog inputs	
Number of analog inputs	8; Difference
permissible input voltage for voltage input (destruction limit), max.	30 V
permissible input current for current input (destruction limit), max.	40 mA
Input ranges	
• Voltage	Yes
• Current	Yes; for channels 6 and 7 only
• Thermocouple	No
• Resistance thermometer	No
• Resistance	No
Input ranges (rated values), voltages	
• 0 to +5 V	Yes
— Input resistance (0 to 5 V)	10 MΩ
• 0 to +10 V	Yes
— Input resistance (0 to 10 V)	10 MΩ
• -2.5 V to +2.5 V	Yes
— Input resistance (-2.5 V to +2.5 V)	10 MΩ
• -5 V to +5 V	Yes
— Input resistance (-5 V to +5 V)	10 MΩ
• -80 mV to +80 mV	No
Input ranges (rated values), currents	
• 0 to 20 mA	Yes; for channels 6 and 7 only
— Input resistance (0 to 20 mA)	10 MΩ
Input ranges (rated values), thermocouples	
• Type E	No
• Type J	No
• Type K	No
• Type N	No
• Type R	No
• Type S	No
• Type T	No
Input ranges (rated values), resistance thermometer	
• Cu 10	No



[Miscellaneous](#)



General Product Approval	other	Environment
--------------------------	-------	-------------

[Miscellaneous](#)

[Confirmation](#)



[Environmental Confirmations](#)

[Environmental Confirmations](#)

last modified: 5/22/2024