



SIMATIC S7-200, ANALOG OUTPUT EM 232,
FOR S7-22X CPU ONLY, 2 AQ, +/- 10V DC,
12 BIT CONVERTER

Input current	
from backplane bus 5 V DC, max.	20 mA
from sensor current supply or external current supply (24 V DC), max.	70 mA
Power losses	
Power loss, typ.	2 W
Analog outputs	
Number of analog outputs	2
Output ranges, voltage	
-10 to +10 V	Yes
Output ranges, current	
4 to 20 mA	Yes
Load impedance (in rated range of output)	
with voltage outputs, min.	5 kΩ
with current outputs, max.	0.5 kΩ
Analog value creation	
Integrations and conversion time/resolution per channel	
Resolution (incl. overrange)	V/12 bits, I/11 bits
Settling time	

for voltage output	100 µs
for current output	2 ms
Displayable conversion value range	
bipolar signals	-32000 bis +32000
unipolar signals	0 to 32000
Errors/accuracies	
Operational limit in overall temperature range	
Voltage, relative to output area, (+/-)	2 %
Current, relative to output area, (+/-)	2 %
Basic error limit (operational limit at 25 °C)	
Voltage, relative to output area, (+/-)	0.5 %
Current, relative to output area, (+/-)	0.5 %
Galvanic isolation	
Galvanic isolation analog outputs	
Galvanic isolation analog outputs	No
Connection method	
Plug-in I/O terminals	No
Dimensions	
Width	46 mm
Height	80 mm
Depth	62 mm
Weights	
Weight, approx.	148 g
Status	Jun 6, 2014