



Figure similar

*** spare part *** SIMATIC S7-200, analog output EM 232, only for S7-22X CPU, 4 AI, +/-10 V DC, 0..20 mA 12/11-bit converter

Input current	
from external supply (24 V DC), max.	70 mA
from backplane bus 5 V DC, max.	20 mA
Power loss	
Power loss, typ.	2 W
Analog outputs	
Number of analog outputs	4
Output ranges, voltage	
• -10 V to +10 V	Yes
Output ranges, current	
• 4 mA 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 generation for the outputs	
Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	12 bit; U / 12 bit, I / 11 bit
Settling time	
• for voltage output	100 μs
• for current output	2 ms
Displayable conversion value range	
• bipolar signals	-32 000 to +32 000
• unipolar signals	0 to 32 000
Errors/accuracies	
Operational error limit in overall temperature range	
• Voltage, relative to output range, (+/-)	2 %
• Current, relative to output range, (+/-)	2 %
Basic error limit (operational limit at 25 °C)	
• Voltage, relative to output range, (+/-)	0.5 %
• Current, relative to output range, (+/-)	0.5 %
Potential separation	
Potential separation analog outputs	
• Potential separation analog outputs	No
connection method	
Plug-in I/O terminals	No
Dimensions	
Width	71.2 mm
Height	80 mm
Depth	62 mm

Weights			
Weight, approx.		190 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	9	EC001420
	ETIM	8	EC001420
	ETIM	7	EC001420
	IDEA	4	3562
	UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval	For use in hazardous locations	Maritime application	
 EG-Konf.	 ATEX	 ABS	 BUREAU VERITAS

[Miscellaneous](#)

[EM](#)

Maritime application

 DNV	 GL	 LRS	 RMRS	CCS (China Classification Society)
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