



SIMATIC S7-400, analog output SM 432, isolated 8 AO; resolution 13 bit, U/I

Supply voltage	
Load voltage L+	
<ul style="list-style-type: none"> Rated value (DC) 	24 V
<ul style="list-style-type: none"> Reverse polarity protection 	Yes
Input current	
from supply and load voltage L+ (without load), max.	200 mA; at rated load: max. 400 mA
from backplane bus 5 V DC, max.	150 mA
Power loss	
Power loss, typ.	9 W
Analog outputs	
Number of analog outputs	8
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	30 mA
Current output, no-load voltage, max.	19 V
Output ranges, voltage	
<ul style="list-style-type: none"> 0 to 10 V 	Yes
<ul style="list-style-type: none"> 1 V to 5 V 	Yes
<ul style="list-style-type: none"> -10 V to +10 V 	Yes
Output ranges, current	
<ul style="list-style-type: none"> 0 to 20 mA 	Yes
<ul style="list-style-type: none"> -20 mA to +20 mA 	Yes
<ul style="list-style-type: none"> 4 mA to 20 mA 	Yes
Connection of actuators	
<ul style="list-style-type: none"> for voltage output two-wire connection 	Yes; possible, without compensation of the line resistances
<ul style="list-style-type: none"> for voltage output four-wire connection 	Yes; possible
<ul style="list-style-type: none"> for current output two-wire connection 	Yes; possible
Load impedance (in rated range of output)	
<ul style="list-style-type: none"> with voltage outputs, min. 	1 k Ω
<ul style="list-style-type: none"> with voltage outputs, capacitive load, max. 	1 μ F
<ul style="list-style-type: none"> with current outputs, max. 	500 Ω ; 600 ohms if common-mode-voltage reduced to <1 V
Cable length	
<ul style="list-style-type: none"> shielded, max. 	200 m
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
<ul style="list-style-type: none"> Resolution with overrange (bit including sign), max. 	13 bit
<ul style="list-style-type: none"> Conversion time (per channel) 	420 μ s; 420 μ s in the ranges 1 to 5 V and 4 to 20 mA; 300 μ s in all ranges
Settling time	
<ul style="list-style-type: none"> for resistive load 	0.1 ms
<ul style="list-style-type: none"> for capacitive load 	3.5 ms

• for inductive load	0.5 ms
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Errors/accuracies

Operational error limit in overall temperature range	
• Voltage, relative to output range, (+/-)	0.5 %; ±10 V, 0 to 10 V, 1 to 5 V
• Current, relative to output range, (+/-)	1 %; ±20 mA, 4 to 20 mV

Basic error limit (operational limit at 25 °C)

• Voltage, relative to output range, (+/-)	0.5 %; ±10 V, 0 to 10 V, 1 to 5 V
• Current, relative to output range, (+/-)	0.5 %; ±20 mA, 0 to 20 mA

Interrupts/diagnostics/status information

Diagnostics function	No
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Potential separation

Potential separation analog outputs	
• between the channels	No
• between the channels and backplane bus	Yes
• Between the channels and load voltage L+	Yes

Isolation

Isolation tested with	2 120 V DC between bus and L+/M; 2 120 V DC between bus and analog section; 500 V DC between bus and local ground; 500 V DC between analog section and L+/M; 2 120 V DC between analog section and local ground; 2 120 V DC between L+/M and local ground
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Dimensions

Width	25 mm
Height	290 mm
Depth	210 mm

Weights

Weight, approx.	650 g
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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



[Miscellaneous](#)



[Metrological Approval](#)



General Product Approval **EMV**



[China RoHS](#)

[Miscellaneous](#)

[Manufacturer Declaration](#)



For use in hazardous locations



IECEEx



ATEX

FM



CCC



IECEEx

[Type Examination Certificate](#)

For use in hazardous locations

Maritime application



ATEX



ABS



BUREAU VERITAS



DNV



LRS

[NK / Nippon Kaiji Kyokai](#)

Maritime application



PRS



RINA



RMRS

[CCS \(China Classification Society\)](#)

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