

SIEMENS

Product data sheet

6ES7432-1HF00-0AB0

SIMATIC S7-400,
SM 432 ANALOG OUTPUT MODULE OPTIC.
ISOLATED,
8 AO, 13 BIT RESOLUTION, U/I

Supply voltage	
Load voltage L+	
Rated value (DC)	24 V
Input current	
from backplane bus 5 V DC, max.	150 mA
from supply voltage L+, max.	400 mA
Power losses	
Power loss, max.	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	
0 to 10 V	Yes
1 to 5 V	Yes
-10 to +10 V	Yes
Output ranges, current	
0 to 20 mA	Yes
-20 to +20 mA	Yes
4 to 20 mA	Yes
Load impedance (in rated range of output)	
with voltage outputs, min.	1 k Ω
with voltage outputs, capacitive load, max.	1 μ F

with current outputs, max.	500 Ω ; 600 ohms if common-mode-voltage reduced to <1 V
Cable length	
Cable length, shielded, max.	200 m
Analog value creation	
Integrations and conversion time/ resolution per channel	
Resolution with overrange (bit including sign), max.	13 bit
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	
for resistive load	0.1 ms
for capacitive load	3.5 ms
for inductive load	0.5 ms
Errors/accuracies	
Operational limit in overall temperature range	
Voltage, relative to output area	+/- 0,5 % ; +/-10 V, 0 to 10 V, 1 to 5 V
Current, relative to output area	+/- 1 % ; +/-20 mA, 4 to 20 mV
Basic error limit (operational limit at 25 °C)	
Voltage, relative to output area	+/- 0,5 % ; +/-10 V, 0 to 10 V, 1 to 5 V
Current, relative to output area	+/- 0,5 % ; +/-20 mA, 0 to 20 mA
Interrupts/diagnostics/status information	
Substitute values connectable	No
Galvanic isolation	
Galvanic isolation analog outputs	
between the channels and the backplane bus	Yes
Isolation	
Isolation checked with	2120 V DC between bus and L+/M; 2120 V DC between bus and analog part; 500 V DC between bus and local ground; 707 V DC between analog part and L+/M; 2120 V DC between analog part and local ground; 2120 V DC between L+/M and local ground
Dimensions	
Width	25 mm
Height	290 mm

Depth	210 mm
Required slots	1
Weight	
Weight, approx.	650 g
Status	Sep 10, 2012