MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6ES7232-0HD22-0XA0

EM 232 FOUR-CHANNEL ANALOG OUTPUT MODULE

Used with the applicable SIMATIC S7-200 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens technical documentation for 6ES7232-0HD22-0XA0

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Data sheet 6ES7232-0HD22-0XA0

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



Figure similar

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 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	

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Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	12 bit; V/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

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