SIEMENS

Product data sheet

6ES7232-4HD32-0XB0



SIMATIC S7-1200, ANALOG OUTPUT, SM 1232, 4 AO, +/-10V, 14 BIT RESOLUTION, OR 0 - 20 MA/4 - 20 MA, 13 BIT RESOLUTION

Supply voltage	
24 V DC	Yes
Input current	
Current consumption, typ.	45 mA
from backplane bus 5 V DC, typ.	80 mA
Power losses	
Power loss, typ.	1.5 W
Analog inputs	
Number of analog inputs	0
Thermocouple (TC)	
Temperature compensation	
Parameterizable	No
Analog outputs	
Number of analog outputs	4 ; Current or voltage
Output ranges, voltage	
-10 to +10 V	Yes
Output ranges, current	
0 to 20 mA	Yes

Load impedance (in rated range of output)		
with voltage outputs, min.	1000 Ω	
with current outputs, max.	600 Ω	
Analog value creation		
Measurement principle	Differential	
Integration and conversion time/resolution per channel		
Resolution (incl. overrange)	Voltage: 14 bits; Current : 13 bits	
Integration time, parameterizable	Yes	
Interference voltage suppression for interference frequency f1 in Hz	40 dB, DC to 60 V for interference frequency 50 / 60 Hz	
Errors/accuracies		
Basic error limit (operational limit at 25 °C)		
Voltage, relative to output area, (+/-)	0.3 %	
Current, relative to output area, (+/-)	0.3 %	
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interference frequency		
common mode voltage, max.	12 V	
Interrupts/diagnostics/status information		
Alarms		
Alarms	Yes	
Diagnostic alarm	Yes	
Diagnostic messages		
Diagnostic functions	Yes	
Monitoring the supply voltage	Yes	
Wire break	Yes	
Short circuit	Yes	
Diagnostics indication LED		
For status of the outputs	Yes	
for maintenance	Yes	
Degree and class of protection		
IP20	Yes	
Standards, approvals, certificates		
CE mark	Yes	
RCM (formerly C-TICK)	Yes	
FM approval	Yes	
Highest safety class achievable in safety mode		
acc. to IEC 61508	none	
Climatic and mechanical conditions for storage and transport		
Climatic conditions for storage and transport		

Free fall	
Drop height, max. (in packaging)	0.3 m; five times, in dispatch package
Relative humidity	
Permissible range (without condensation) at 25 °C	95 %
Mechanical and climatic conditions during operation	
Climatic conditions in operation	
Temperature	
Permissible temperature range	-20 °C to +60 °C horizontal mounting, -20 °C to 50 °C vertical mounting, 95% humidity, non-condensing
Pollutant concentrations	
SO2 at RH < 60% without condensation	S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free
Connection method	_
required front connector	Yes
Mechanics/material	and the second s
Type of housing (front)	
plastic	Yes
Dimensions	
Width	45 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	180 g
Status	Dec 11, 2014