

SIEMENS

Product data sheet

6ES7232-4HA30-0XB0


SIMATIC S7-1200,
ANALOG OUTPUT SB 1232, 1 AO,
+/- 10VDC (12 BIT RES.) OR 0 - 20 MA (11 BIT RES)

Input current	
from backplane bus 5 V DC, typ.	15 mA
Output voltage	
Power supply to the transmitters	
Supply current, max.	25 mA
Power losses	
Power loss, typ.	1.5 W
Analog outputs	
Number of analog outputs	1
Cycle time (all channels) max.	Voltage: 300 μ S (R), 750 μ S (1 uF) Current: 600 ms (1 mH); 2 ms (10 mH)
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
Cable length	
Cable length, shielded, max.	10 m ; Shielded, twisted wire pair
Analog value creation	
Measurement principle	Differential
Integrations and conversion time/ resolution per channel	
Resolution (incl. overrange)	V/12 bits, I/11 bits
Smoothing of measured values	
Parameterizable	Yes
Errors/accuracies	
Temperature error (relative to output area)	25°C \pm 0.5% bis 55°C \pm 1%
Interrupts/diagnostics/status information	
Alarms	
Alarms	Yes
Diagnostic messages	
Diagnostic functions	Yes
Diagnostics indication LED	
For status of the outputs	Yes
Degree and class of protection	
IP20	Yes
Standards, approvals, certificates	
CE mark	Yes
C-TICK	Yes
FM approval	Yes
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
Temperature	
Permissible temperature range	-40 °C to +70 °C
Air pressure acc. to IEC 60068-2-13	
Permissible air pressure	1080 to 660 hPa

Mechanical and climatic conditions during operation	
Climatic conditions in operation	
Temperature	
Permissible temperature range	0 °C to 55 °C horizontal installation 0 °C to 45 °C vertical installation
Pollutant concentrations	
SO ₂ at RH < 60% without condensation	SO ₂ : < 0.5 ppm; H ₂ S: < 0.1 ppm; RH < 60% condensation-free
Mechanics/material	
Type of housing (front)	
Plastic	Yes
Dimensions	
Width	38 mm
Height	62 mm
Depth	21 mm
Weight	
Weight, approx.	40 g
Status	Sep 24, 2012