SIEMENS

Data sheet

6ES7532-5NB00-0AB0



SIMATIC S7-1500 Analog output module AQ 2x U/I ST, 16 bit resolution, accuracy 0.3%. 2 channels in groups of 2; Diagnostics; Substitute value; Delivery including push-in front connector, infeed element, shield bracket and shield terminal

General information	
Product type designation	AQ 2xU/I ST
HW functional status	FS01
Firmware version	V1.0.0
 FW update possible 	Yes
Product function	
● I&M data	Yes; I&M0 to I&M3
Output range scalable	No
Engineering with	
 STEP 7 TIA Portal configurable/integrated as of version 	V13 / V13.0.2
 STEP 7 configurable/integrated as of version 	V5.5 SP3 / -
 PROFIBUS as of GSD version/GSD revision 	V1.0 / V5.1
 PROFINET as of GSD version/GSD revision 	V2.3 / -
Operating mode	
Oversampling	No
• MSO	Yes
CiR – Configuration in RUN	

Reparameterization possible in RUN	Yes
Calibration possible in RUN	Yes
0	
Supply voltage Type of supply voltage	DC
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
reverse polarity protection	163
Input current	
Current consumption, max.	110 mA; with 24 V DC supply
Power	
Power available from the backplane bus	0.65 W
Power loss	
Power loss, typ.	2.7 W
Angleyendurk	
Analog outputs Number of analog outputs	2
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	24 mA
Current output, no-load voltage, max.	22 V
Cycle time (all channels), min.	3.2 ms; independent of number of activated channels
Output ranges, voltage	one may make the manual of a culture of an animole
• 0 to 10 V	Yes
• 1 V to 5 V	Yes
• -5 V to +5 V	No
• -10 V to +10 V	Yes
Output ranges, current	163
• 0 to 20 mA	Yes
• -20 mA to +20 mA	Yes
• 4 mA to 20 mA	Yes
Connection of actuators	163
• for voltage output two-wire connection	Yes
	Yes
for voltage output four-wire connection for current output two wire connection	Yes
• for current output two-wire connection	163
Load impedance (in rated range of output)	1 kΩ; 0.5 kOhm at 1 to 5 V
with voltage outputs, min.	
with voltage outputs, capacitive load, max.	1 µF
with current outputs, max.	750 Ω
with current outputs, inductive load, max.	10 mH
Cable length	000 militar augment 200 militaria
• shielded, max.	800 m; for current, 200 m for voltage

Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), 	16 bit
max.	0.5
Conversion time (per channel)	0.5 ms
Settling time	
 for resistive load 	1.5 ms
• for capacitive load	2.5 ms
• for inductive load	2.5 ms
Errors/accuracies	
Output ripple (relative to output range, bandwidth 0 to 50 kHz), (+/-)	0.02 %
Linearity error (relative to output range), (+/-)	0.15 %
Temperature error (relative to output range), (+/-)	0.002 %/K
Crosstalk between the outputs, max.	-100 dB
Repeat accuracy in steady state at 25 °C (relative to output range), (+/-)	0.05 %
Operational error limit in overall temperature range	
 Voltage, relative to output range, (+/-) 	0.3 %
Current, relative to output range, (+/-)	0.3 %
Basic error limit (operational limit at 25 °C)	
 Voltage, relative to output range, (+/-) 	0.2 %
 Current, relative to output range, (+/-) 	0.2 %
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	No
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnostic messages	
 Monitoring the supply voltage 	Yes
Wire-break	Yes; Only for output type "current"
Short-circuit	Yes; Only for output type "voltage"
Overflow/underflow	Yes
Diagnostics indication LED	
• RUN LED	Yes; Green LED
• ERROR LED	Yes; Red LED
 Monitoring of the supply voltage (PWR-LED) 	Yes; Green LED
Channel status display	Yes; Green LED
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Yes; Red LED • for module diagnostics Potential separation Potential separation channels No • between the channels 2 • between the channels, in groups of • between the channels and backplane bus Yes Yes • Between the channels and load voltage L+ Permissible potential difference between S- and MANA (UCM) 8 V DC Isolation tested with 707 V DC (type test) Ambient conditions Ambient temperature during operation 0°C • horizontal installation, min. 60 °C • horizontal installation, max. 0°C • vertical installation, min. • vertical installation, max. 40 °C Altitude during operation relating to sea level 5 000 m; Restrictions for installation altitudes > 2 000 m, see • Installation altitude above sea level, max. manual Prioritized startup No **Dimensions** Width 25 mm Height 147 mm Depth 129 mm Weights

200 g

08/30/2019

Yes; Red LED

Weight, approx.

last modified:

Other Note:

• for channel diagnostics

Supplied incl. 40-pole push-in front connectors