SIEMENS

Data sheet

6ES7532-5HF00-0AB0



SIMATIC S7-1500, ANALOG OUTPUT MODULE AQ 8 X U/I HS 16 BITS OF RESOLUTION, ACCURACY 0.3 %, 8CHANNELS IN GROUPS OF 8, DIAGNOSIS, SUBSTITUTE VALUE 8 CHANNELS IN 0.125 MS INCL. INFEED ELEMENT, SHIELD CLAMP AND SHIELD TERMINAL

Figure similar

Product	цуре	designation

General information		
HW functional status	E01	
Firmware version	V2.0.0	
Product function		
● I&M data	Yes; I&M0 to I&M3	
Engineering with		
 STEP 7 TIA Portal can be configured/integrated as of version 	V12 / V12	
 STEP 7 can be configured/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		
• MSO	Yes	
CiR - Configuration in RUN		
Reparameterization possible in RUN	Yes	
Calibration possible in RUN	Yes	
Supply voltage		
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	
Input current		

Current consumption, max.	260 mA; with 24 V DC supply
Power	
Power available from the backplane bus	1.15 W
Power losses	
Power loss, typ.	7 W
Analog outputs	
Number of analog outputs	8
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	45 mA
Current output, no-load voltage, max.	20 V
Cycle time (all channels), min.	125 μs; independent of number of activated channels
Output ranges, voltage	123 µ3, independent of number of activated charmers
• 0 to 10 V	Yes
	Yes
• 1 V to 5 V	
• -10 V to +10 V	Yes
Output ranges, current	V
• 0 to 20 mA	Yes
• -20 mA to +20 mA	Yes
• 4 mA to 20 mA	Yes
Connection of actuators	
 for voltage output two-wire connection 	Yes
 for voltage output four-wire connection 	Yes
 for current output two-wire connection 	Yes
Load impedance (in rated range of output)	
with voltage outputs, min.	1 kΩ
 with voltage outputs, capacitive load, max. 	100 nF
• with current outputs, max.	500 Ω
• with current outputs, inductive load, max.	1 mH
Cable length	
• shielded, max.	200 m
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), 	16 bit
max.	
Conversion time (per channel)	50 μs
Settling time	
• for resistive load	30 μs; see additional description in the manual
for capacitive load	100 μs; see additional description in the manual
• for inductive load	100 μs; see additional description in the manual
Errors/accuracies	

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Output ripple (based on output area, 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 area), (+/-)	0.05 %
Operational limit in overall temperature range	
 Voltage, relative to output area, (+/-) 	0.3 %
 Current, relative to output area, (+/-) 	0.3 %
Basic error limit (operational limit at 25 °C)	
 Voltage, relative to output area, (+/-) 	0.2 %
 Current, relative to output area, (+/-) 	0.2 %
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	Yes
Execution and activation time (TCO), min.	100 µs
Bus cycle time (TDP), min.	250 μs
Interrupts/diagnostics/status information	
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnostic messages	
Diagnostics	Yes
 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
• for channel diagnostics	Yes; Red LED
• for module diagnostics	Yes; Red LED
Electrical isolation channels	
between the channels	No
 between the channels, in groups of 	8
 between the channels and the backplane bus 	Yes
 between the channels and the load voltage L+ 	Yes
Permissible potential difference	

between MANA and M internally (UISO)	75 V DC/60 V AC (base isolation)	
between S- and MANA (UCM)	+/- 8 V	
Isolation		
Isolation checked with	707 V DC (type test)	
Decentralized operation		
Prioritized startup	No	
Dimensions		
Width	35 mm	
Height	147 mm	
Depth	129 mm	
Weights		
Weight, approx.	325 g	
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