SIEMENS

Data sheet

General information

6ES7135-6HD00-0BA1

SIMATIC ET 200SP, Analog output module, AQ 4XU/I Standard, suitable for BU type A0, A1, Color code CC00, Module diagnostics, 16 bit, +/-0.3%



General information	
Product type designation	AQ 4xU/I ST
HW functional status	From FS07
usable BaseUnits	BU type A0, A1
Color code for module-specific color identification plate	CC00
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 	V11 SP2 / V13
 STEP 7 configurable/integrated as of version 	V5.5 SP3 / -
 PCS 7 configurable/integrated as of version 	V8.1 SP1
 PROFIBUS as of GSD version/GSD revision 	One GSD file each, Revision 3 and 5 and higher
 PROFINET as of GSD version/GSD revision 	GSDML V2.3
Operating mode	
Oversampling	No
• MSO	No

CiR – Configuration in RUN		
Reparameterization possible in RUN	Yes	
Calibration possible in RUN	No	
Supply voltage	24.1/	
Rated value (DC)	24 V 19.2 V	
permissible range, lower limit (DC)	28.8 V	
permissible range, upper limit (DC) Reverse polarity protection	Yes	
Reverse polarity protection	res	
Input current		
Current consumption, max.	150 mA	
Power loss		
Power loss, typ.	1.5 W	
Address area Address space per module		
· ·	8 byte; + 1 byte for QI information	
Address space per module, max.		
Analog outputs		
Number of analog outputs	4	
Voltage output, short-circuit current, max.	45 mA	
Cycle time (all channels), min.	5 ms	
Analog output with oversampling	No	
Output ranges, voltage		
• 0 to 10 V	Yes; 15 bit	
• 1 V to 5 V	Yes; 13 bit	
• -5 V to +5 V	Yes; 15 bit incl. sign	
• -10 V to +10 V	Yes; 16 bit incl. sign	
Output ranges, current		
• 0 to 20 mA	Yes; 15 bit	
• -20 mA to +20 mA	Yes; 16 bit incl. sign	
• 4 mA to 20 mA	Yes; 14 bit	
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. 	2 kΩ	
 with voltage outputs, capacitive load, max. 	1 µF	
• with current outputs, max.	500 Ω	
 with current outputs, inductive load, max. 	1 mH	
Destruction limits against externally applied voltages and currents		
Voltages at the outputs	30 V	

Cable length		
• shielded, max.	1 000 m; 200 m for voltage output	
An allow well as a second that for the second second		
Analog value generation for the outputs Integration and conversion time/resolution per channel		
Resolution with overrange (bit including sign),	16 bit	
max.		
Settling time		
 for resistive load 	0.1 ms	
 for capacitive load 	1 ms	
• for inductive load	0.5 ms	
Errors/accuracies Linearity error (relative to output range), (+/-)	0.03 %	
Temperature error (relative to output range), (+/-)	0.005 %/K	
Crosstalk between the outputs, min.	-50 dB	
Repeat accuracy in steady state at 25 °C (relative to	0.05 %	
output range), (+/-)		
Operational error limit in overall temperature range		
 Voltage, relative to output range, (+/-) 	0.5 %	
• Current, relative to output range, (+/-)	0.5 %	
Basic error limit (operational limit at 25 °C)		
 Voltage, relative to output range, (+/-) 	0.3 %	
• Current, relative to output range, (+/-)	0.3 %	
Isochronous mode		
Isochronous operation (application synchronized up	No	
to terminal)		
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	
Short-circuit	Yes	
Group error	Yes	
Overflow/underflow	Yes	
Diagnostics indication LED		
 Monitoring of the supply voltage (PWR-LED) 	Yes; Green PWR LED	
Channel status display	Yes; Green LED	
• for channel diagnostics	No	
• for module diagnostics	Yes; green/red DIAG LED	

Potential separation	
Potential separation channels	
 between the channels 	No
 between the channels and backplane bus 	Yes
 between the channels and the power supply of 	Yes
the electronics	
Isolation	

Isolation tested with

707 V DC (type test)

Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	-30 °C
 horizontal installation, max. 	60 °C; Observe derating
 vertical installation, min. 	-30 °C
 vertical installation, max. 	50 °C; Observe derating
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	2 000 m; On request: Installation altitudes greater than 2 000 m
Dimensions	
Width	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	31 g
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