SIEMENS

Data sheet

6ES7135-6GB00-0BA1



SIMATIC ET 200SP, Analog output module, AQ 2xI Standard, Pack quantity: 1 unit, suitable for BU type A0, A1, Color code CC00, Module diagnostics, 16 bit

General information	
Product type designation	AQ 2xl ST
HW functional status	From FS03
Firmware version	
 FW update possible 	Yes
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
 Isochronous mode 	No
Output range scalable	No
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	V13 SP1 / -
 STEP 7 configurable/integrated from version 	V5.5 SP3 / -
 PROFIBUS from GSD version/GSD revision 	GSD Revision 5
 PROFINET from 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	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Input current	
Current consumption, max.	110 mA
Power loss	
Power loss, typ.	1.5 W
Address area	
Address space per module	
 Address space per module, max. 	4 byte; + 1 byte for QI information
Hardware configuration	
Automatic encoding	
Mechanical coding element	Yes
Type of mechanical coding element	Type A
Analog outputs	

Number of analog outputs	2	
Cycle time (all channels), min.	1 ms	
Analog output with oversampling	No	
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 current output two-wire connection	Yes	
Load impedance (in rated range of output)		
with current outputs, max.	500 Ω	
with current outputs, inductive load, max.	1 mH	
Destruction limits against externally applied voltages and cur		
Voltages at the outputs	30 V	
Cable length	4 000	
• shielded, max.	1 000 m	
Analog value generation for the outputs		
Integration and conversion time/resolution per channel		
Resolution with overrange (bit including sign), max.	16 bit	
Settling time		
• for resistive load	0.1 ms; Typical value	
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	0.50/	
Voltage, relative to output range, (+/-)	0.5 %	
• Current, relative to output range, (+/-)	0.5 %	
Basic error limit (operational limit at 25 °C)	0.2.0/	
Voltage, relative to output range, (+/-) Current, relative to output range, (+/-)	0.3 % 0.3 %	
Current, relative to output range, (+/-)	0.5 %	
Interrupts/diagnostics/status information		
Diagnostics function	Yes	
Substitute values connectable	Yes	
Alarms	v	
Diagnostic alarm	Yes	
Diagnoses	V	
Monitoring the supply voltage	Yes	
Wire-break Croup error	Yes	
Group error Overflow/underflow	Yes	
Overflow/underflow Diagnostics indication LED	Yes	
Monitoring of the supply voltage (PWR-LED)	Ves: green PWR LED	
Monitoring of the supply voltage (PWR-LED) Channel status display	Yes; green PWR LED Yes; green LED	
for channel diagnostics	No	
for module diagnostics	Yes; green/red DIAG LED	
Potential separation	100, grootified bif/O LLD	
Potential separation channels	No	
between the channels between the channels and backplane bus	No You	
between the channels and backplane bus between the channels and the newer supply of the	Yes	
 between the channels and the power supply of the electronics 	Yes	
Isolation		
	707 V DC (type teet)	
Isolation tested with	707 V DC (type test)	
Ambient conditions		
Ambient temperature during operation		
 horizontal installation, min. 	-30 °C; < 0 °C as of FS03	
 horizontal installation, max. 	60 °C	

Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Dimensions	
Width	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	31 g
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