## 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	
<ul> <li>Isochronous mode</li> </ul>	No	
Output range scalable	No	
Engineering with		
<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	V13 SP1 / -	
<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	V5.5 SP3 / -	
<ul> <li>PROFIBUS from GSD version/GSD revision</li> </ul>	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		

Machanical adding alamant	Yes
Mechanical coding element	
Type of mechanical coding element	Туре А
Analog outputs	0
Number of analog outputs	2
Cycle time (all channels), min.	1 ms
Analog output with oversampling	No
Output ranges, current	Ver 45 bit
• 0 to 20 mA	Yes; 15 bit
• -20 mA to +20 mA	Yes; 16 bit incl. sign
4 mA to 20 mA Connection of actuators	Yes; 14 bit
	Vee
for current output two-wire connection	Yes
Load impedance (in rated range of output)	500 Ω
<ul> <li>with current outputs, max.</li> <li>with current outputs, inductive load, max.</li> </ul>	1 mH
Destruction limits against externally applied voltages and cur	
Voltages at the outputs	30 V
Cable length	50 V
• shielded, max.	1 000 m
	1 000 11
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 output range), (+/-)	0.05 %
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)	0.0 /0
Voltage, relative to output range, (+/-)	0.3 %
<ul> <li>Current, relative to output range, (+/-)</li> </ul>	0.3 %
Interrupts/diagnostics/status information	0.0 /0
	Voo
Diagnostics function Substitute values connectable	Yes
Alarms	Tes
Diagnostic alarm	Yes
Diagnoses	
Monitoring the supply voltage	Yes
Wire-break	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	No
<ul> <li>between the channels</li> <li>between the channels and backplane bus</li> </ul>	No
between the channels and backplane bus	Yes
<ul> <li>between the channels and the power supply of the electronics</li> </ul>	Yes

Isolation	
Isolation tested with	707 V DC (type test)
Ambient conditions	
Ambient temperature during operation	
<ul> <li>horizontal installation, min.</li> </ul>	-30 °C; < 0 °C as of FS03
<ul> <li>horizontal installation, max.</li> </ul>	60 °C
<ul> <li>vertical installation, min.</li> </ul>	-30 °C; < 0 °C as of FS03
<ul> <li>vertical installation, max.</li> </ul>	50 °C
Altitude during operation relating to sea level	
<ul> <li>Installation altitude above sea level, max.</li> </ul>	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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