**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		
<ul><li>I&amp;M data</li></ul>	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		
<ul><li>Oversampling</li></ul>	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		
<ul> <li>Address space per module, max.</li> </ul>	4 byte; + 1 byte for QI information	
Hardware configuration		
Automatic encoding		
<ul> <li>Mechanical coding element</li> </ul>	Yes	
<ul> <li>Type of mechanical coding element</li> </ul>	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	100, 14 bit	
for current output two-wire connection	Yes	
Load impedance (in rated range of output)		
with current outputs, max.	500 Ω	
with current outputs, max.      with current outputs, inductive load, max.	1 mH	
Destruction limits against externally applied voltages and cur		
Voltages at the outputs     30 V		
Cable length	00 V	
shielded, max.	1 000 m	
,	1 000 111	
Analog value generation for the outputs		
Integration and conversion time/resolution per channel	16 hit	
Resolution with overrange (bit including sign), max.  Setting times.	16 bit	
Settling time	0.4 may Typical colum	
• 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		
<ul> <li>Voltage, relative to output range, (+/-)</li> </ul>	0.5 %	
Current, relative to output range, (+/-)	0.5 %	
Basic error limit (operational limit at 25 °C)		
<ul> <li>Voltage, relative to output range, (+/-)</li> </ul>	0.3 %	
Current, relative to output range, (+/-)	0.3 %	
Interrupts/diagnostics/status information		
Diagnostics function	Yes	
Substitute values connectable	Yes	
Alarms		
Diagnostic alarm	Yes	
Diagnoses		
<ul> <li>Monitoring the supply voltage</li> </ul>	Yes	
Wire-break	Yes	
Group error	Yes	
Overflow/underflow	Yes	
Diagnostics indication LED		
<ul> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul>	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 the	Yes	
electronics	133	
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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