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

Product type designation HW functional status From FS03 Firmware version • FW update possible usable BaseUnits Color code for module-specific color identification plate Product function • ISM data • Isochronous mode • Output range scalable No Engineering with • STEP 7 TIA Portal configurable/integrated from version • STEP 7 TOP for GSD version/GSD revision • PROFINET from GSD version/GSD revision • PROFINET from GSD version/GSD revision • NSO Operating mode • Oversampting • No • NSO OIR - Configuration in RUN Reparameterization possible in RUN No Supply voltage Rated value (DC) permissible range, upper limit (DC) Reverse polarity protection Input current Current consumption, max. Power loss, typ. Address space per module • Mechanical coding element • Type of mechanical coding element	General information	
Firmware version • FW update possible usable Baselurits Color code for module-specific color identification plate Product function • I&M data • Ischronous mode • Output range scalable Engineering with • STEP 7 TIA Portal configurable/integrated from version • STEP 7 TORIGNER SET VERSION STATE OF STATE	Product type designation	AQ 2xl ST
• FW update possible usable BaseUnits Color code for module-specific color identification plate Product function • I&M data All Schronous mode • Output range scalable Engineering with • STEP 7 TIA Portal configurable/integrated from version • STEP 7 Ton Form Schronous GSD revision • PROFIBUS from GSD version/GSD revision • Oversampling • Oversampling • Oversampling • MSO Oir Configuration in RUN Reparameterization possible in RUN Calibration possible in RUN Calibration possible in RUN Calibration possible range, lower limit (DC) permissible range poper module • Address space per module of the recombined of the proper of the p	HW functional status	From FS03
usable BaseUnits Color code for module-specific color identification plate Product function • 18M data • Isochronous mode • Output range scalable Fingineering with • STEP 7 TIA Portal configurable/integrated from version • STEP 7 Tongfigurable/integrated from version • STEP 7 Tongfigurable/integrated from version • STEP 7 Tongfigurable/integrated from version • PROFIBUS from GSD version/GSD revision • No **SUBMIT V2.3 **Operating mode • No **Operating mode • No **Operating mode • Ves **Pes **Calibration possible in RUN **No **Supply voltage **Rated value (DC) • 24 V **permissible range, lower limit (DC) • 19.2 V **permissible range, lower limit (DC) • 19.2 V **permissible range, lower limit (DC) • 28.8 V **Reverse polarity protection **Yes **Inouturent **Current consumption, max. **Power loss, typ. **Address area **Address space per module • Address space per module, max. **4 byte; + 1 byte for QI information **Automatic encoding • Mechanical coding element • Yes • Type of mechanical coding element • Type A	Firmware version	
Color code for module-specific color identification plate Product function I I&M data I Scochronous mode Output range scalable Product function I STEP 7 TIA Portal configurable/integrated from version STEP 7 TIA Portal configurable/integrated from version STEP 7 To configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFIBUS from GSD version/GSD revision PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision No PROFINET from GSD version/GSD revision No Operating mode Oversampling No No CIR - Configuration in RUN Reparameterization possible in RUN Calibration possible in RUN No Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) Reverse polarity protection Yes Input current Current consumption, max. Power loss Power loss Power loss Power loss, typ. Address space per module Address space per module Address space per module Address space per module, max. 4 byte; + 1 byte for Ql information Automatic encoding Mechanical coding element Type of mechanical coding element	 FW update possible 	Yes
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Isable data Isochronous mode Output range scalable Regineering with STEP 7 TIA Portal configurable/integrated from version Inversion STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision Profibus from GSD version/GSD revis	Color code for module-specific color identification plate	CC00
Isochronous mode Output range scalable No Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 Ton Start Protestion STEP 7 Ton GSD version/GSD revision PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision PROFINET from GSD version/GSD revision Operating mode Oversampling MSO No CIR - Configuration in RUN Reparameterization possible in RUN Calibration possible in RUN No Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Aveverse polarity protection Ves Input current Current consumption, max. 110 mA Power loss Power loss Power loss Power space per module Address	Product function	
Output range scalable Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD re	 I&M data 	Yes; I&M0 to I&M3
Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision PROFINET from GSD version/GSD revision SDML V2.3 Operating mode Oversampling No MSO No CIR - Configuration in RUN Reparameterization possible in RUN Calibration possible in RUN No Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection Yes Input current Current consumption, max. 110 mA Power loss Power loss Power loss, typ. Address space per module Address space per module, max. 4 byte; + 1 byte for QI information Automatic encoding Mechanical coding element Yes Type of mechanical coding element Type A	 Isochronous mode 	No
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Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) Reverse polarity protection Yes Input current Current consumption, max. Power loss Power loss, typ. 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 • Type of mechanical coding element Type A	Calibration possible in RUN	No
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Reverse polarity protection Input current Current consumption, max. Power loss Power loss, typ. 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 • Type of mechanical coding element Type A	permissible range, lower limit (DC)	19.2 V
Input current Current consumption, max. Power loss Power loss, typ. 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 • Type of mechanical coding element Type A	permissible range, upper limit (DC)	28.8 V
Current consumption, max. Power loss Power loss, typ. Address area Address space per module • Address space per module, max. Hardware configuration Automatic encoding • Mechanical coding element • Type of mechanical coding element Type A	Reverse polarity protection	Yes
Power loss, typ. 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 • Type of mechanical coding element Type A	Input current	
Power loss, typ. 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 • Type of mechanical coding element Type A	Current consumption, max.	110 mA
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 • Type of mechanical coding element Type A	Power loss	
Address space per module • Address space per module, max. 4 byte; + 1 byte for QI information Hardware configuration Automatic encoding • Mechanical coding element • Type of mechanical coding element Type A	Power loss, typ.	1.5 W
 Address space per module, max. Hardware configuration Automatic encoding Mechanical coding element Type of mechanical coding element Type A 	Address area	
Hardware configuration Automatic encoding • Mechanical coding element • Type of mechanical coding element Type A	Address space per module	
Automatic encoding • Mechanical coding element • Type of mechanical coding element Type A	Address space per module, max.	4 byte; + 1 byte for QI information
 Mechanical coding element Type of mechanical coding element Type A 	Hardware configuration	
Type of mechanical coding element Type A	Automatic encoding	
	 Mechanical coding element 	Yes
Analog outputs	 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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