SIEMENS

SIMATIC ET 200SP, ANALOG OUTPUT MODULE, AQ 4XU/I STANDARD, FITS TO BU-TYPE A0, A1, COLOR CODE CC00, MODULE DIAGNOSIS, 16BIT, +/-0,3%

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General information	
Usable BaseUnits	BU type A0, A1
Color code for module-specific color identification plate	CC00
Product function	
I&M data	Yes
Engineering with	
STEP 7 TIA Portal can be configured/integrated as of version	V11 SP2 / V13
STEP 7 can be configured/integrated as of version	V5.5 SP3 / -
PROFIBUS as of GSD version/GSD revision	GSD Revision 5
PROFINET as of GSD version/GSD revision	V2.3 / -
CiR - Configuration in RUN	
Reparameterization possible in RUN	Yes
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.	150 mA

Power losses	
Power loss, typ.	1.5 W
Address area	
Address space per module	
Address space per module, max.	8 byte
Analog outputs	
Number of analog outputs	4
Voltage output, short-circuit current, max.	45 mA
Cycle time (all channels), min.	5 ms
Output ranges, voltage	
0 to 10 V	Yes ; 15 bit
1 to 5 V	Yes ; 13 bit
-5 to +5 V	Yes ; 15 bit incl. sign
-10 to +10 V	Yes ; 16 bit incl. sign
Output ranges, current	
0 to 20 mA	Yes ; 15 bit
-20 to +20 mA	Yes ; 16 bit incl. sign
4 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	
Cable length, shielded, max.	1000 m ; 200 m for voltage output
Errors/accuracies	
Linearity error (relative to output range), (+/-)	0.03 %
Temperature error (relative to output range), (+/-)	0.0050 %/K
Crosstalk between the outputs, min.	-50 dB
Repeat accuracy in steady state at 25 °C (relative to output area), (+/-)	0.05 %
Operational limit in overall temperature range	

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Voltage, relative to output area, (+/-)	0.5 %
Current, relative to output area, (+/-)	0.5 %
Basic error limit (operational limit at 25 °C)	
Voltage, relative to output area, (+/-)	0.3 %
Current, relative to output area, (+/-)	0.3 %
Interrupts/diagnostics/status information	
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnostic messages	
Diagnostics	Yes
Monitoring the supply voltage	Yes
Wire break	Yes
Short circuit	Yes
Overflow/underflow	Yes
Diagnostics indication LED	
Monitoring of the supply voltage (PWR-LED)	Yes ; Green LED
Channel status display	Yes ; Green LED
for module diagnostics	Yes ; Green/red LED
Galvanic isolation	
Electrical isolation channels	
between the channels	No
between the channels and the backplane bus	Yes
between the channels and the supply voltage of the electronics	Yes
Permissible potential difference	
between different circuits	75 V DC/60 V AC (base isolation)
Isolation	
Isolation checked with	707 V DC (type test)
Ambient conditions	
Ambient temperature in operation	
horizontal installation, min.	0 °C
horizontal installation, max.	60 °C
vertical installation, min.	0 °C
vertical installation, max.	50 °C
Dimensions	
Width	15 mm
Weights	
Weight, approx.	31 g

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