

SIMATIC S7-200 SMART, Analog output SM AQ02, 2 AO, +/-10 V, 11 bit resolution, or 4-20 mA, 10 bit resolution

General information			
Product type designation		SM AQ02, AQ 2x11 bit	
CiR - Configuration in RUN			
Reparameterization possible in RUN		No	
Supply voltage			
Type of supply voltage		DC	
Rated value (DC)		24 V; -15 / +20 %	
permissible range, lower limit (DC)		20.4 V	
permissible range, upper limit (DC)		28.8 V	
Input current			
Current consumption, typ.		50 mA	
from backplane bus 5 V DC, typ.		80 mA	
Power loss			
Power loss, typ.		1.5 W	
Analog inputs			
Number of analog inputs		0	
Analog outputs			
Number of analog outputs		2; Current or voltage	
Output ranges, voltage			
• -10 V to +10 V		Yes	
Output ranges, current			
• 0 to 20 mA		Yes	
Load impedance (in rated range of output)			
• with voltage outputs, min.		1 kΩ	
• with current outputs, max.		500 Ω	
Analog value generation for the outputs			
Integration and conversion time/resolution per channel			
• Resolution with overrange (bit including sign), max.		11 bit	
• Resolution in isochronous mode (including overrange)		voltage mode: 10 bit + sign bit, current mode: 10 bit	
Interrupts/diagnostics/status information			
Diagnostics function		Yes	
Diagnoses			
• Monitoring the supply voltage		Yes	
• Wire-break		Yes	
• Short-circuit		Yes	
Diagnostics indication LED			
• for status of the outputs		Yes	
Degree and class of protection			
IP degree of protection		IP20	
Standards, approvals, certificates			
CE mark		Yes	
Dimensions			
Width		45 mm	
Height		100 mm	
Depth		81 mm	
Weights			
Weight, approx.		147.1 g	
Classifications			
		Version	Classification
	eClass	14	27-24-22-01

eClass	12	27-24-22-01
eClass	9.1	27-24-22-01
eClass	9	27-24-22-01
eClass	8	27-24-22-01
eClass	7.1	27-24-22-01
eClass	6	27-24-22-01
ETIM	9	EC001420
ETIM	8	EC001420
ETIM	7	EC001420
IDEA	4	3562
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval



last modified:

3/12/2024 