



*** Spare part *** SIMATIC DP, Electronics module f. ET200S, 2 AO U, 15 mm width, +/-10V; 13 bit+sign, 1..5 V; 12 bit, Cycle time less than 1 ms with SF LED (group fault)

General information	
Product function	
• Isochronous mode	No
Supply voltage	
Load voltage L+	
• Rated value (DC)	24 V; From power module
• Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	130 mA
from backplane bus 3.3 V DC, max.	10 mA
Power loss	
Power loss, max.	2 W
Address area	
Address space per module	
• Address space per module, max.	4 byte
Analog outputs	
Number of analog outputs	2
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	25 mA
Cycle time (all channels) max.	1.5 ms
Output ranges, voltage	
• 1 V to 5 V	Yes
• -10 V to +10 V	Yes
Connection of actuators	
• for voltage output two-wire connection	Yes; Without compensation of the line resistances
• for voltage output four-wire connection	Yes
Load impedance (in rated range of output)	
• with voltage outputs, min.	1 kΩ
• with voltage outputs, capacitive load, max.	1 μF
Destruction limits against externally applied voltages and currents	
• Voltages at the outputs towards MANA	15 V; max. 15 V continuous; 75 V for max. 1 s (mark to space ratio 1:20)
• Current, max.	50 mA; DC
Cable length	
• shielded, max.	200 m
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	14 bit; 1 to 5 V: 12 bit, ±10 V: 13 bit + sign
Settling time	
• for resistive load	0.1 ms
• for capacitive load	0.5 ms

• for inductive load	0.5 ms																																							
Errors/accuracies																																								
Operational error limit in overall temperature range																																								
• Voltage, relative to output range, (+/-)	0.4 %																																							
Basic error limit (operational limit at 25 °C)																																								
• Voltage, relative to output range, (+/-)	0.2 %																																							
Interrupts/diagnostics/status information																																								
Substitute values connectable	Yes; 0 to 65535 (range of values must be within the rated range)																																							
Diagnoses																																								
• Diagnostic information readable	Yes																																							
• Short-circuit	Yes																																							
• Group error	Yes																																							
Diagnostics indication LED																																								
• Group error SF (red)	Yes																																							
Parameter																																								
Remark	7 byte																																							
Diagnostics short-circuit	Disable / enable																																							
Group diagnostics	Disable / enable																																							
Response to CPU/master STOP	Output current and de-energized/substitute a value/keep last value																																							
Potential separation																																								
Potential separation analog outputs																																								
• between the channels	No																																							
• between the channels and backplane bus	Yes																																							
• Between the channels and load voltage L+	Yes																																							
Isolation																																								
Isolation tested with	500 V DC																																							
Dimensions																																								
Width	15 mm																																							
Height	81 mm																																							
Depth	52 mm																																							
Weights																																								
Weight, approx.	40 g																																							
Classifications																																								
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EMV	For use in hazardous locations																																							



RCM



ATEX

[FM](#)



ATEX



UL

[Miscellaneous](#)

For use in hazardous locations



ATEX



IECEX

[CCC-Ex](#)



ABS



BUREAU
VERITAS



DNV

Marine / Shipping



LRS

[NK / Nippon Kaiji Kyokai](#)



PRS



RINA

[CCS \(China Classification Society\)](#)

last modified:

5/22/2024