



*** Spare part *** SIMATIC DP, Electronics module for ET 200S, 2 AO U High Speed, 15 mm width, +/-10 V, +/-5 V, 1.. 5V; 16 bit, Cycle time: 0.1ms with SF LED (group fault)

General information	
Product function	
• Isochronous mode	Yes
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, typ.	2.2 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.	0.25 ms
Output ranges, voltage	
• 1 V to 5 V	Yes
• -5 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; 0.1 μF for Twa=0.1 ms
Destruction limits against externally applied voltages and currents	
• Voltages at the outputs towards MANA	15 V; Max. 15 V for max. 5 hours, 75 V for max. 1 s
• Current, max.	30 mA; DC
Cable length	
• shielded, max.	200 m; Max. 20 m for TWA 100 μs
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	16 bit; 1 to 5 V: 14 bit, ±10 V: 15 bit + sign, ±5 V: 14 bit + sign
Settling time	

<ul style="list-style-type: none">• for resistive load• for capacitive load• for inductive load	0.05 ms		
	0.05 ms		
	0.05 ms		
Errors/accuracies			
Operational error limit in overall temperature range			
<ul style="list-style-type: none">• Voltage, relative to output range, (+/-)	0.2 %		
Basic error limit (operational limit at 25 °C)			
<ul style="list-style-type: none">• Voltage, relative to output range, (+/-)	0.01 %		
Interrupts/diagnostics/status information			
Substitute values connectable	Yes; 0 to 65535 (range of values must be within the rated range)		
Diagnoses			
<ul style="list-style-type: none">• Diagnostic information readable	Yes		
<ul style="list-style-type: none">• Wire break	No		
<ul style="list-style-type: none">• Short-circuit	Yes		
<ul style="list-style-type: none">• Group error	Yes		
Diagnostics indication LED			
<ul style="list-style-type: none">• Group error SF (red)	Yes		
Potential separation			
Potential separation analog outputs			
<ul style="list-style-type: none">• between the channels	No		
<ul style="list-style-type: none">• between the channels and backplane bus	Yes		
<ul style="list-style-type: none">• 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			
		Version	Classification
	eClass	16	27-24-26-01
	eClass	14	27-24-26-01
	eClass	12	27-24-26-01
	eClass	9.1	27-24-26-01
	eClass	9	27-24-26-01
	eClass	8	27-24-26-01
	eClass	7.1	27-24-26-01
	eClass	6	27-24-26-01
	ETIM	10	EC001596
	ETIM	9	EC001596
	ETIM	8	EC001596
	ETIM	7	EC001596
	IDEA	4	3562
	UNSPSC	15	32-15-17-05
Approvals / Certificates			
General Product Approval			
 EG-Konf.	Manufacturer Declaration		Miscellaneous
 UL		 RCM	
General Product Approval		EMV	For use in hazardous locations



[China RoHS](#)



For use in hazardous locations

[FM](#)



[Miscellaneous](#)

For use in hazardous locations

Maritime application

[CCC-Ex](#)



[NK / Nippon Kaiji Kyokai](#)

Maritime application



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

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