



*** 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 %
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Basic error limit (operational limit at 25 °C)

• Voltage, relative to output range, (+/-)	0.2 %
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Interrupts/diagnostics/status information

Substitute values connectable	Yes; 0 to 65535 (range of values must be within the rated range)
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Diagnoses

• Diagnostic information readable	Yes
• Short-circuit	Yes
• Group error	Yes

Diagnostics indication LED

• Group error SF (red)	Yes
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Parameter

Remark	7 byte
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Diagnostics short-circuit	Disable / enable
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Group diagnostics	Disable / enable
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Response to CPU/master STOP	Output current and de-energized/substitute a value/keep last value
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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
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Dimensions

Width	15 mm
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Height	81 mm
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Depth	52 mm
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Weights

Weight, approx.	40 g
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Classifications

	Version	Classification
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

[Miscellaneous](#)

[Manufacturer Declaration](#)



[China RoHS](#)



General Product Approval	EMV	For use in hazardous locations			
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[FM](#)



For use in hazardous locations				Maritime application	
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[Miscellaneous](#)

[CCC-Ex](#)



Maritime application					
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[NK / Nippon Kaiji Kyokai](#)



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

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