

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)



### 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
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### 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

<b>Output ranges, voltage</b>	
• 1 V to 5 V	Yes
• -5 V to +5 V	Yes
• -10 V to +10 V	Yes
<b>Connection of actuators</b>	
• for voltage output two-wire connection	Yes; Without compensation of the line resistances
• for voltage output four-wire connection	Yes
<b>Load impedance (in rated range of output)</b>	
• with voltage outputs, min.	1 kΩ
• with voltage outputs, capacitive load, max.	1 µF; 0.1 µF for Twa=0.1 ms
<b>Destruction limits against externally applied voltages and currents</b>	
• 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
<b>Cable length</b>	
• shielded, max.	200 m; Max. 20 m for TWA 100 µs
<b>Analog value generation for the outputs</b>	
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
<b>Settling time</b>	
• for resistive load	0.05 ms
• for capacitive load	0.05 ms
• for inductive load	0.05 ms
<b>Errors/accuracies</b>	
Operational error limit in overall temperature range	
• Voltage, relative to output range, (+/-)	0.2 %
Basic error limit (operational limit at 25 °C)	
• Voltage, relative to output range, (+/-)	0.01 %
<b>Interrupts/diagnostics/status information</b>	
Diagnostic messages	
• Diagnostic information readable	Yes
• Wire-break	No
• Short-circuit	Yes
• Group error	Yes
Diagnostics indication LED	
• Group error SF (red)	Yes
<b>Parameter</b>	
Remark	7 byte
Diagnostics short-circuit	Disable / enable
Output type/range	deactivated / 1 to 5 V / ±10 V / ±5 V
Group diagnostics	Disable / enable

Response to CPU/master STOP	Output current and de-energized/substitute a value/keep last value
<b>Potential separation</b>	
Potential separation analog outputs	
• between the channels	No
• between the channels and backplane bus	Yes
• Between the channels and load voltage L+	Yes
<b>Isolation</b>	
Isolation tested with	500 V DC
<b>Dimensions</b>	
Width	15 mm
Height	81 mm
Depth	52 mm
<b>Weights</b>	
Weight, approx.	40 g
<b>last modified:</b>	06/12/2020