

SIMATIC DP, Electronics module for ET 200S, 2 AO I 15 mm width, +/-20mA; 13 bit+sign, 4..20mA; 13 bit Cycle time less than 1 ms 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.	150 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
Current output, no-load voltage, max.	18 V
Cycle time (all channels) max.	1.5 ms
Output ranges, current	

• -20 mA to +20 mA	Yes
• 4 mA to 20 mA	Yes
<b>Connection of actuators</b>	
• for current output two-wire connection	Yes
• for current output four-wire connection	No
<b>Load impedance (in rated range of output)</b>	
• with current outputs, max.	500 Ω
• with current outputs, inductive load, max.	1 mH
<b>Destruction limits against externally applied voltages and currents</b>	
• 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
<b>Cable length</b>	
• shielded, max.	200 m
<b>Analog value generation for the outputs</b>	
<b>Integration and conversion time/resolution per channel</b>	
• Resolution with overrange (bit including sign), max.	14 bit; 4 to 20 mA: 13 bit, ±20 mA: 14 bit
<b>Settling time</b>	
• for resistive load	0.1 ms
• for capacitive load	0.5 ms
• for inductive load	0.5 ms
<b>Errors/accuracies</b>	
<b>Operational error limit in overall temperature range</b>	
• Current, relative to output range, (+/-)	0.5 %
<b>Basic error limit (operational limit at 25 °C)</b>	
• Current, relative to output range, (+/-)	0.3 %
<b>Interrupts/diagnostics/status information</b>	
Substitute values connectable	Yes; 0 to 65535 (range of values must be within the rated range)
<b>Diagnostic messages</b>	
• Diagnostic information readable	Yes
• Wire-break	Yes
• Group error	Yes
<b>Diagnostics indication LED</b>	
• Group error SF (red)	Yes
<b>Parameter</b>	
Remark	7 byte
Diagnostics wire break	Disable / enable
Output type/range	deactivated / ±20 mA / 4 to 20 mA
Group diagnostics	Disable / enable

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
Height	81 mm
Depth	52 mm

### Weights

Weight, approx.	40 g
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**last modified:** 11/16/2019