

SIMATIC DP, Electronics module 2 AO I High Feature for ET 200S, 15 mm width, Cycle time per module: 0.5 ms, +/-20mA; 15 bit+sign, 4.. 20mA; 15 bits Operational limit +/-0.05% with SF LED (group fault)



General information	
Product function	
• Isochronous mode	Yes
Supply voltage	
Load voltage L+	
• Rated value (DC)	24 V
• Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	80 mA
from backplane bus 3.3 V DC, max.	10 mA
Power loss	
Power loss, max.	1.2 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.	0.5 ms
Output ranges, current	
• -20 mA to +20 mA	Yes
• 4 mA to 20 mA	Yes
Connection of actuators	
• for current output two-wire connection	Yes
• for current output four-wire connection	No
Load impedance (in rated range of output)	
• with current outputs, max.	500 Ω
• with current outputs, inductive load, max.	1 mH
Destruction limits against externally applied voltages and currents	
• Current, max.	50 mA
Cable length	
• shielded, max.	200 m; 100 m if $T_{wa} < 2$ ms
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	16 bit
Settling time	
• for resistive load	0.3 ms
• for capacitive load	1 ms
• for inductive load	0.5 ms
Errors/accuracies	
Operational error limit in overall temperature range	
• Current, relative to output range, (+/-)	0.1 %
Basic error limit (operational limit at 25 °C)	
• Current, relative to output range, (+/-)	0.05 %
Interrupts/diagnostics/status information	
Diagnoses	
• Diagnostic information readable	Yes
• Wire-break	Yes
• Group error	Yes
Diagnostics indication LED	
• Group error SF (red)	Yes
Parameter	
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: 12/09/2020