

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)



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
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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; 100m if Twa < 2ms
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	
Output ripple (relative to output range, bandwidth 0 to 50 kHz), (+/-)	0.02 %
Linearity error (relative to output range), (+/-)	0.01 %
Temperature error (relative to output range), (+/-)	0.003 %/K
Crosstalk between the outputs, min.	60 dB
Repeat accuracy in steady state at 25 °C (relative to output range), (+/-)	0.01 %
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 %
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	Yes
Interrupts/diagnostics/status information	
Substitute values connectable	Yes
Diagnostic messages	
• 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
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
Permissible potential difference	
between MANA and M internally (UISO)	75 V DC/60 V AC
Isolation	
Isolation tested with	500 V DC
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	40 g
last modified:	05/09/2019