

SIMATIC DP, Electronics module f. ET200S, 2AI Standard I-4DMU  
 15 mm width, +/-20mA; 13 bit+sign 4.. 20mA; 12-bit for 4-wire  
 transmitter Cycle time 65 ms/channel with SF LED (group fault)



<b>Supply voltage</b>	
Load voltage L+	
• Rated value (DC)	24 V; From power module
<b>Input current</b>	
from load voltage L+ (without load), max.	30 mA
from backplane bus 3.3 V DC, max.	10 mA
<b>Power loss</b>	
Power loss, typ.	0.6 W
<b>Address area</b>	
Address space per module	
• Address space per module, max.	4 byte
<b>Analog inputs</b>	
Number of analog inputs	2
permissible input current for current input (destruction limit), max.	40 mA
Cycle time (all channels) max.	Number of active channels per module x basic conversion time
Input ranges (rated values), currents	

• -20 mA to +20 mA	Yes; 50 Ohm
• 4 mA to 20 mA	Yes; 50 Ohm
<b>Cable length</b>	
• shielded, max.	200 m

### Analog value generation for the inputs

<b>Integration and conversion time/resolution per channel</b>	
• Resolution with overrange (bit including sign), max.	14 bit; ±20 mA: 14 bit, 4 to 20 mA: 13 bit
• Integration time (ms)	16,7 / 20 ms
• Interference voltage suppression for interference frequency f1 in Hz	50 / 60 Hz
• Conversion time (per channel)	65 ms; 55 / 65 ms

### Errors/accuracies

<b>Operational error limit in overall temperature range</b>	
• Current, relative to input range, (+/-)	0.6 %
<b>Basic error limit (operational limit at 25 °C)</b>	
• Current, relative to input range, (+/-)	0.4 %

### Interrupts/diagnostics/status information

<b>Diagnostic messages</b>	
• Wire-break	Yes; Measuring range 4 to 20 mA only
• Group error	Yes
• Overflow/underflow	Yes
<b>Diagnostics indication LED</b>	
• Group error SF (red)	Yes

### Parameter

Remark	4 byte
Diagnostics wire break	Disable / enable (only in measuring range 4 to 20 mA)
Measurement type/range	deactivated / ±20 mA / 4 to 20 mA
Group diagnostics	Disable / enable
Overflow/underflow	Disable / enable

### Potential separation

<b>Potential separation analog inputs</b>	
• between the channels	No
• between the channels and backplane bus	Yes
• Between the channels and load voltage L+	No

### Isolation

Isolation tested with	500 V DC
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### Dimensions

Width	15 mm
Height	81 mm

Depth	52 mm
<b>Weights</b>	
Weight, approx.	40 g
<b>last modified:</b>	11/16/2019