

SIMATIC DP, Electronics module ET 200S: 2 AI High Speed U, 15 bit, 15 mm width, Cycle time of module: 0.1 ms, with SF LED (group fault)



Figure similar

Supply voltage

Load voltage L+

- Rated value (DC) 24 V
- 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 W
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Address area

Address space per module

- Address space per module, max. 4 byte

Analog inputs

Number of analog inputs	2
permissible input voltage for voltage input (destruction limit), max.	35 V; Permanent

Cycle time (all channels) max.	250 µs
Input ranges (rated values), voltages	
• 1 V to 5 V — Input resistance (1 V to 5 V)	Yes 120 kΩ
• -10 V to +10 V — Input resistance (-10 V to +10 V)	Yes 120 kΩ
• -2.5 V to +2.5 V — Input resistance (-2.5 V to +2.5 V)	Yes 120 kΩ
• -5 V to +5 V — Input resistance (-5 V to +5 V)	Yes 120 kΩ
Cable length	
• shielded, max.	200 m
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	16 bit; 15 bit: 1 to 5 V; ±2.5 V; 16 bit: ±10 V; ±5 V
• Conversion time (per channel)	15 µs
Encoder	
Connection of signal encoders	
• for voltage measurement	Yes
Errors/accuracies	
Operational error limit in overall temperature range	
• Voltage, relative to input range, (+/-)	0.3 %
Basic error limit (operational limit at 25 °C)	
• Voltage, relative to input range, (+/-)	0.2 %
Interrupts/diagnostics/status information	
Alarms	
• Hardware interrupt	Yes
Diagnostic messages	
• Diagnostic information readable	Yes
• Wire-break	Yes; at 1 to 5 V
• Group error	Yes
• Overflow/underflow	Yes
Diagnostics indication LED	
• Group error SF (red)	Yes
Parameter	
Remark	12 bytes, 4 bytes in compatibility mode
Measurement type/range	Deactivated / ±5 V / 1 to 5 V / ±10 V / ±2.5 V
Group diagnostics	Disable / enable
Overflow/underflow	Disable / enable

Potential separation

Potential separation analog inputs

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| • 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: 06/12/2020