



Figure similar

SIMATIC DP, ELECTRONIC MODULE ET 200S: 2 AI HIGH SPEED U, 15 BIT, 15 MM WIDE, CYCLE TIME OF MODULE: 0.1MS, WITH LED SF (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 losses

Power loss, typ.	1.9 W
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Address area

Address space per module

• Address space per module, max.	4 byte
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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

• Voltage	Yes
• Current	No
• Thermocouple	No
• Resistance thermometer	No
• Resistance	No

Input ranges (rated values), voltages	
• 1 V to 5 V	Yes
• Input resistance (1 V to 5 V)	120 kΩ
• -10 V to +10 V	Yes
• Input resistance (-10 V to +10 V)	120 kΩ
• -2.5 V to +2.5 V	Yes
• Input resistance (-2.5 V to +2.5 V)	120 kΩ
• -5 V to +5 V	Yes
• Input resistance (-5 V to +5 V)	120 kΩ
Cable length	
• shielded, max.	200 m
Analog value creation	
Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	16 bit; 15 bits: 1 to 5 V; +/-2.5 V; 16 bits: +/-10 V; +/-5 V
Smoothing of measured values	
• Parameterizable	Yes
• Step: None	Yes; 1 x cycle time
• Step: low	Yes; 4 x cycle time
• Step: Medium	Yes; 16 x cycle time
• Step: High	Yes; 32 x cycle time
Encoder	
Connection of signal encoders	
• for voltage measurement	Yes
Errors/accuracies	
Linearity error (relative to input range), (+/-)	0.03 %
Temperature error (relative to input range), (+/-)	0.01 %/K
Crosstalk between the inputs, min.	-50 dB
Repeat accuracy in steady state at 25 °C (relative to input area), (+/-)	0.1 %
Operational limit in overall temperature range	
• Voltage, relative to input area, (+/-)	0.3 %
Basic error limit (operational limit at 25 °C)	
• Voltage, relative to input area, (+/-)	0.2 %
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	Yes
Interrupts/diagnostics/status information	
Alarms	
• Hardware interrupt	Yes
Diagnostic messages	

• Diagnostic functions	Yes
• 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
Galvanic isolation	
Galvanic isolation analog inputs	
• between the channels	No
• between the channels and the backplane bus	Yes
• between the channels and the load voltage L+	Yes
Isolation	
Isolation checked with	500 V DC
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	45 g
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