

SIMATIC DP, ELECTRONIC MODULE FOR ET 200S, 2 AI
STANDARD 15 MM WIDE +/-10 V; 13 BIT + SIGN +/-5 V; 12 BIT+
SIGN, 1..5V; 12BIT, CYCLE TIME 65 MS/CHANNEL WITH LED SF
(GROUP FAULT)

Supply voltage

Load voltage L+	
• Rated value (DC)	24 V; From power module
• Reverse polarity protection	Yes

Input current

from load voltage L+ (without load), max.	30 mA
from backplane bus 3.3 V DC, max.	10 mA

Power loss

Power loss, typ.	0.6 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; 35 V continuous; 75 V for max. 1 ms (mark to space ratio 1:20)
Cycle time (all channels) max.	Number of active channels per module x basic conversion time

Input ranges (rated values), voltages

• 1 V to 5 V	Yes
• -10 V to +10 V	Yes
• -5 V to +5 V	Yes

Cable length

• shielded, max.	200 m
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Analog value generation for the inputs

Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	14 bit; ±10 V: 13 bit + sign, ±5 V: 13 bit + sign; 1 to 5 V: 13 bit
• Integration time, parameterizable	Yes
• 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	
Operational error limit in overall temperature range	
• Voltage, relative to input range, (+/-)	0.6 %
Basic error limit (operational limit at 25 °C)	
• Voltage, relative to input range, (+/-)	0.4 %
Interrupts/diagnostics/status information	
Diagnostic messages	
• Wire-break	Yes; Measuring range 1 to 5 V only
• Group error	Yes
• Overflow/underflow	Yes
Diagnostics indication LED	
• Group error SF (red)	Yes
Parameter	
Remark	4 byte
Diagnostics wire break	Disable / enable (only in measuring range 1 to 5 V)
Measurement type/range	deactivated / ± 5 V / 1 to 5 V / ± 10 V
Group diagnostics	Disable / enable
Overflow/underflow	Disable / enable
Potential separation	
Potential separation analog inputs	
• 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
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	40 g
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