



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

General information	
Product function	
<ul style="list-style-type: none"> • Isochronous mode 	Yes
Supply voltage	
Load voltage L+	
<ul style="list-style-type: none"> • Rated value (DC) • Reverse polarity protection 	24 V 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
Address area	
Address space per module	
<ul style="list-style-type: none"> • 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 μ s
Input ranges (rated values), voltages	
<ul style="list-style-type: none"> • 1 V to 5 V — Input resistance (1 V to 5 V) • -10 V to +10 V — Input resistance (-10 V to +10 V) • -2.5 V to +2.5 V — Input resistance (-2.5 V to +2.5 V) • -5 V to +5 V — Input resistance (-5 V to +5 V) 	Yes 120 k Ω Yes 120 k Ω Yes 120 k Ω Yes 120 k Ω
Cable length	
<ul style="list-style-type: none"> • shielded, max. 	200 m
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
<ul style="list-style-type: none"> • Resolution with overrange (bit including sign), max. • Conversion time (per channel) 	16 bit; 15 bit: 1 to 5 V; \pm 2.5 V; 16 bit: \pm 10 V; \pm 5 V 15 μ s
Smoothing of measured values	
<ul style="list-style-type: none"> • parameterizable • Step: None 	Yes Yes; 1x cycle time

- Step: low Yes; 4x cycle time
- Step: Medium Yes; 16x cycle time
- Step: High Yes; 32x cycle time

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

Diagnoses

- 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
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
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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: 1/16/2021 