



SIMATIC DP, Electronics module ET 200S 4AI standard I-2-wire, 4-20 mA; 13 bit, 15 mm width, for 2-wire transducer Cycle time 40 ms/module with SF LED (group fault)

General information	
Product function	
<ul style="list-style-type: none"> • Isochronous mode 	No
Supply voltage	
Load voltage L+	
<ul style="list-style-type: none"> • Rated value (DC) • Reverse polarity protection 	24 V; From power module Yes
Input current	
from load voltage L+ (without load), max.	125 mA
from backplane bus 3.3 V DC, max.	10 mA
Output voltage	
Power supply to the transmitters	
<ul style="list-style-type: none"> • present • short-circuit proof 	Yes Yes; approx. 200 mA for module
Power loss	
Power loss, typ.	0.6 W
Address area	
Address space per module	
<ul style="list-style-type: none"> • Address space per module, max. 	8 byte
Analog inputs	
Number of analog inputs	4
permissible input current for current input (destruction limit), max.	30 mA; limited electronically
Cycle time (all channels) max.	40 ms; 33 to 40 ms
Input ranges (rated values), currents	
<ul style="list-style-type: none"> • 4 mA to 20 mA 	Yes; Into 25 Ohm
Cable length	
<ul style="list-style-type: none"> • shielded, max. 	200 m
Analog value generation for the inputs	
Measurement principle	integrating
Integration and conversion time/resolution per channel	
<ul style="list-style-type: none"> • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Integration time (ms) • Interference voltage suppression for interference frequency f1 in Hz 	13 bit; 4 to 20 mA: 13 bit Yes 16,67 / 20 ms 50 / 60 Hz
Smoothing of measured values	

- parameterizable Yes; in 4 stages
- Step: None Yes; 1x cycle time
- Step: low Yes; 4x cycle time
- Step: Medium Yes; 16x cycle time
- Step: High Yes; 32x cycle time

Errors/accuracies

Operational error limit in overall temperature range

- Current, relative to input range, (+/-) 0.4 %

Basic error limit (operational limit at 25 °C)

- Current, relative to input range, (+/-) 0.3 %

Interrupts/diagnostics/status information

Diagnoses

- 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	7 byte
Diagnostics wire break	1
Group diagnostics	1
Overflow/underflow	1

Potential separation

Potential separation analog inputs

- 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

Weights

Weight, approx.	40 g
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last modified: 7/28/2021 