

SIMATIC DP, Electronics module ET200S: 2AI High Speed I-2-wire 0-20 mA; 4.. 20mA, 15 bit, 15 mm width, for 2-wire transducer Cycle time of module: 0.1 ms, with SF LED (group fault)



Figure similar

Supply voltage	
Load voltage L+	
• Rated value (DC)	24 V
• Short-circuit protection	Yes
• Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	225 mA
from backplane bus 3.3 V DC, max.	10 mA
Output voltage	
Power supply to the transmitters	
• present	Yes
Power loss	
Power loss, typ.	2.5 W
Address area	
Address space per module	

- Address space per module, max. 4 byte

Analog inputs

Number of analog inputs	2
Cycle time (all channels) max.	0.25 ms
Input ranges (rated values), currents	
<ul style="list-style-type: none"> • 0 to 20 mA — Input resistance (0 to 20 mA) 	Yes 106 Ω
<ul style="list-style-type: none"> • 4 mA to 20 mA 	Yes
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. 	16 bit

Encoder

Connection of signal encoders	
<ul style="list-style-type: none"> • for current measurement as 2-wire transducer 	Yes

Errors/accuracies

Operational error limit in overall temperature range	
<ul style="list-style-type: none"> • Current, relative to input range, (+/-) 	0.3 %
Basic error limit (operational limit at 25 °C)	
<ul style="list-style-type: none"> • Current, relative to input range, (+/-) 	0.2 %

Interrupts/diagnostics/status information

Alarms	
<ul style="list-style-type: none"> • Hardware interrupt 	Yes
Diagnostic messages	
<ul style="list-style-type: none"> • Wire-break • Group error • Overflow/underflow 	Yes; at 4 to 20 mA Yes Yes
Diagnostics indication LED	
<ul style="list-style-type: none"> • Group error SF (red) 	Yes

Parameter

Diagnostics wire break	At 4 to 20 mA
Measurement type/range	4 to 20 mA, 0 to 20 mA
Group diagnostics	1
Overflow/underflow	1

Potential separation

Potential separation analog inputs	
<ul style="list-style-type: none"> • between the channels • between the channels and backplane bus 	No Yes

- Between the channels and load voltage L+

Yes

Dimensions

Width	15 mm
Height	81 mm
Depth	52 mm

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