



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

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) 	24 V
<ul style="list-style-type: none"> • Short-circuit protection 	Yes
<ul style="list-style-type: none"> • 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 / header	
supply voltage of the transmitters / header	
<ul style="list-style-type: none"> • present 	Yes
<ul style="list-style-type: none"> • short-circuit proof 	Yes
Power loss	
Power loss, typ.	2.5 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
Cycle time (all channels) max.	0.25 ms
Input ranges (rated values), currents	
<ul style="list-style-type: none"> • 0 to 20 mA 	Yes
— Input resistance (0 to 20 mA)	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
Smoothing of measured values	
<ul style="list-style-type: none"> • parameterizable 	Yes
<ul style="list-style-type: none"> • Step: None 	Yes; 1x cycle time
<ul style="list-style-type: none"> • Step: low 	Yes; 4x cycle time
<ul style="list-style-type: none"> • Step: Medium 	Yes; 16x cycle time
<ul style="list-style-type: none"> • Step: High 	Yes; 32x cycle time
Encoder	

Connection of signal encoders	
• for current measurement as 2-wire transducer	Yes
Errors/accuracies	
Operational error limit in overall temperature range	
• Current, relative to input range, (+/-)	0.3 %
Basic error limit (operational limit at 25 °C)	
• Current, relative to input range, (+/-)	0.2 %
Interrupts/diagnostics/status information	
Alarms	
• Hardware interrupt	Yes
Diagnoses	
• Wire-break	Yes; at 4 to 20 mA
• Group error	Yes
• Overflow/underflow	Yes
Diagnostics indication LED	
• Group error SF (red)	Yes
Parameter	
Diagnostics wire break	at 4 to 20 mA
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+	Yes
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm

last modified:

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