

SIMATIC DP, Electronics module ET 200S: 2AI High Speed I-4WIRE
 4-20 mA; 16 bit, 15 mm width, for 4-wire transmitter, 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.	80 mA; without load
from backplane bus 3.3 V DC, max.	10 mA
Output voltage	
Power supply to the transmitters	
• present	Yes
Encoder supply	
Number of outputs	2
Type of output voltage	24 V
Short-circuit protection	Yes
Output current	

<ul style="list-style-type: none"> • Rated value 	80 mA; Per channel
<ul style="list-style-type: none"> • permissible range, lower limit 	0 mA
<ul style="list-style-type: none"> • permissible range, upper limit 	90 mA
Power loss	
Power loss, typ.	1.9 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 current for current input (destruction limit), max.	30 mA
Cycle time (all channels) max.	250 μ s
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"> • -20 mA to +20 mA 	Yes
<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 	No
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"> • Diagnostic information readable 	Yes
<ul style="list-style-type: none"> • Wire-break 	Yes; Measuring range 4 to 20 mA only
<ul style="list-style-type: none"> • Group error 	Yes
<ul style="list-style-type: none"> • Overflow/underflow 	Yes

Diagnostics indication LED	
• 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, ±20 mA
Group diagnostics	Yes
Overflow/underflow	Yes
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
Weights	
Weight, approx.	45 g
last modified:	06/12/2020