



Figure similar

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)

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.	80 mA; without load
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
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
<ul style="list-style-type: none"> — 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	

• shielded, max.	200 m
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	16 bit
Smoothing of measured values	
• parameterizable	Yes
• Step: None	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 current measurement as 2-wire transducer	No
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	
• Diagnostic information readable	Yes
• Wire-break	Yes; Measuring range 4 to 20 mA only
• 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	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: 9/11/2023 