



Figure similar

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)

General information	
Product function	
<ul style="list-style-type: none"> <li>• Isochronous mode</li> </ul>	Yes
Supply voltage	
Load voltage L+	
<ul style="list-style-type: none"> <li>• Rated value (DC)</li> <li>• Short-circuit protection</li> <li>• Reverse polarity protection</li> </ul>	24 V Yes 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	
<ul style="list-style-type: none"> <li>• present</li> </ul>	Yes
Power loss	
Power loss, typ.	2.5 W
Address area	
Address space per module	
<ul style="list-style-type: none"> <li>• Address space per module, max.</li> </ul>	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"> <li>• 0 to 20 mA</li> <li>— Input resistance (0 to 20 mA)</li> <li>• 4 mA to 20 mA</li> </ul>	Yes 106 Ω Yes
Cable length	
<ul style="list-style-type: none"> <li>• shielded, max.</li> </ul>	200 m
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
<ul style="list-style-type: none"> <li>• Resolution with overrange (bit including sign), max.</li> </ul>	16 bit
Smoothing of measured values	
<ul style="list-style-type: none"> <li>• parameterizable</li> <li>• Step: None</li> <li>• Step: low</li> <li>• Step: Medium</li> </ul>	Yes Yes; 1x cycle time Yes; 4x cycle time Yes; 16x cycle time

• Step: High	Yes; 32x cycle time
<b>Encoder</b>	
Connection of signal encoders	
• for current measurement as 2-wire transducer	Yes
<b>Errors/accuracies</b>	
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 %
<b>Interrupts/diagnostics/status information</b>	
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
<b>Parameter</b>	
Diagnostics wire break	At 4 to 20 mA
Measurement type/range	4 to 20 mA, 0 to 20 mA
<b>Potential separation</b>	
Potential separation analog inputs	
• between the channels	No
• between the channels and backplane bus	Yes
• Between the channels and load voltage L+	Yes
<b>Dimensions</b>	
Width	15 mm
Height	81 mm
Depth	52 mm
<b>last modified:</b>	1/16/2021 