## SIEMENS

## Data sheet

## 6ES7134-4GB52-0AB0



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		
Isochronous mode	Yes	
Supply voltage		
Load voltage L+		
Rated value (DC)	24 V	
Short-circuit protection	Yes	
<ul> <li>Reverse polarity protection</li> </ul>	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	
<ul> <li>short-circuit proof</li> </ul>	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		
• 0 to 20 mA	Yes	
- Input resistance (0 to 20 mA)	106 Ω	
• 4 mA to 20 mA	Yes	
Cable length		
<ul> <li>shielded, max.</li> </ul>	200 m	
Analog value generation for the inputs		
Integration and conversion time/resolution per channel		
<ul> <li>Resolution with overrange (bit including sign), max.</li> </ul>	16 bit	
Smoothing of measured values		
parameterizable	Yes	
Step: None	Yes; 1x cycle time	
Step: low	Yes; 4x cycle time	

• Step: High       Yes; 32x cycle time         Encoder       Vec: variable encoders         • for current measurement as 2-wire transducer       Yes         Errors/accuracies       Operational error limit in overall temperature range         • Our 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       0.2 %         Alarms       Ves         • Hardware interrupt       Yes         Diagnoses       Ves; at 4 to 20 mA         • Group error       Yes         • Overflow/underflow       Yes         Diagnostics indication LED       Vecs         • Group error SF (red)       Yes         Diagnostics wire break       1         Overflow/underflow       1         Potential separation       1         Potential separation       Yes         Poteween the channels and backplane bus       Yes         • between the channels and backplane bus       Yes	Step: Medium	Yes; 16x cycle time	
Connection of signal encoders       Yes         For current measurement as 2-wire transducer       Yes         Errors/accuracies       Ves         Operational error limit in overall temperature range       0.3 %         Basic error limit (operational limit at 25 °C)       0.3 %         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 SF (red)       Yes         Parametor       Diagnostics indication LED         • Group error SF (red)       Yes         Parametor       Diagnostics         Diagnostics       1         Overflow/underflow       1         Potential separation       1         Potential separation       Yes         Potential separation       Yes         Potential separation       Yes         • between the channels and backplane bus       Yes         • between the channels and load voltage L+       Yes         Dimensions       Yes         Width       15 mm         Height       81 mm	Step: High		
• for current measurement as 2-wire transducer     Yes       Errors/accuracies	Encoder		
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, (+/-)         • 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         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       1         Potential separation       1         Potential separation       No         • between the channels       No         • between the channels and load voltage L+       Yes         Dimensions       Yes         Width       15 mm         Height       81 mm	Connection of signal encoders		
Operational error limit in overall temperature range       0.3 %         Basic error limit (operational limit at 25 °C)       0.3 %         e Current, relative to input range, (+/-)       0.2 %         Interrupts/diagnostics/status information       0.2 %         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       1         Diagnostics wire break       at 4 to 20 mA         Group diagnostics       1         Overflow/underflow       1         Potential separation       1         Potential separation analog inputs       Yes         • between the channels and backplane bus       Yes         • Between the channels and backp	• for current measurement as 2-wire transducer	Yes	
• Current, relative to input range, (+/-)       0.3 %         Basic error limit (operational limit at 25 °C)       • Current, relative to input range, (+/-)         • Current, relative to input range, (+/-)       0.2 %         Interrupts/diagnostics/status information       Marms         • Hardware interrupt       Yes         Diagnoses       Yes; at 4 to 20 mA         • Group error       Yes         • Overflow/underflow       Yes         Diagnostics indication LED       • Group error SF (red)         • Group error SF (red)       Yes         Diagnostics wire break       at 4 to 20 mA         • Group error SF (red)       Yes         Diagnostics wire break       at 4 to 20 mA         • Group diagnostics       1         Overflow/underflow       1         Potential separation       1         Potential separation analog inputs       •         • between the channels and backplane bus       Yes         • Between the channels and load voltage L+       Yes         Dimensions       15 mm         Height       81 mm	Errors/accuracies		
Basic error limit (operational limit at 25 °C)       0.2 %         Interrupts/diagnostics/status information       0.2 %         Alarms       • Hardware interrupt       Yes         Diagnoses       • Wire-break       Yes; at 4 to 20 mA         • Group error       Yes       Yes         Diagnostics indication LED       • Group error SF (red)       Yes         Parameter       Journal of the context of the conte	Operational error limit in overall temperature range		
• 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)         • Group error SF (red)       Yes         Parameter       1         Diagnostics wire break       at 4 to 20 mA         Group diagnostics       1         Overflow/underflow       1         Potential separation       1         Potential separation analog inputs       Yes         • between the channels and backplane bus       Yes         • between the channels and backplane bus       Yes         • Between the channels and load voltage L+       Yes         Dimensions       Width       15 mm         Height       81 mm	<ul> <li>Current, relative to input range, (+/-)</li> </ul>	0.3 %	
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)         • Group error SF (red)       Yes         Parameter       1         Diagnostics wire break       at 4 to 20 mA         Group diagnostics       1         Overflow/underflow       1         Potential separation       1         Potential separation analog inputs       • between the channels and backplane bus         • between the channels and backplane bus       Yes         • Between the channels and load voltage L+       Yes         Dimensions       15 mm         Width       15 mm         Height       81 mm	Basic error limit (operational limit at 25 °C)		
Alarms       Yes         Diagnoses       Yes; at 4 to 20 mA         • Wire-break       Yes; at 4 to 20 mA         • Group error       Yes         • Overflow/underflow       Yes         Diagnostics indication LED       Yes         • Group error SF (red)       Yes         Parameter       Yes         Diagnostics wire break       at 4 to 20 mA         Group diagnostics       1         Overflow/underflow       1         Potential separation       1         Potential separation analog inputs       Yes         • between the channels       No         • between the channels and backplane bus       Yes         • Between the channels and load voltage L+       Yes         Dimensions       15 mm         Width       15 mm         Height       81 mm	• Current, relative to input range, (+/-)	0.2 %	
• Hardware interrupt       Yes         Diagnoses       • Wire-break         • Wire-break       Yes; at 4 to 20 mA         • Group error       Yes         • Overflow/underflow       Yes         Diagnostics indication LED       • Group error SF (red)         • Group error SF (red)       Yes         Parameter	Interrupts/diagnostics/status information		
Diagnoses         • Wire-break       Yes; at 4 to 20 mA         • Group error       Yes         • Overflow/underflow       Yes         Diagnostics indication LED       Yes         • Group error SF (red)       Yes         Parameter       Yes         Diagnostics wire break       at 4 to 20 mA         Group diagnostics       1         Overflow/underflow       1         Potential separation       1         Potential separation analog inputs       No         • between the channels and backplane bus       Yes         • Between the channels and load voltage L+       Yes         Dimensions       15 mm         Width       15 mm         Height       81 mm	Alarms		
• Wire-breakYes; at 4 to 20 mA• Group errorYes• Overflow/underflowYesDiagnostics indication LEDYes• Group error SF (red)YesParameterImage: Stress of the stress of t	Hardware interrupt	Yes	
• Group error     Yes       • Overflow/underflow     Yes       Diagnostics indication LED     • Group error SF (red)       • Group error SF (red)     Yes       Parameter     Image: Second	Diagnoses		
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 and backplane bus Yes     Between the channels and backplane bus Yes     Between the channels and load voltage L+ Yes Dimensions Width 15 mm Height 15 mm	Wire-break	Yes; at 4 to 20 mA	
Diagnostics indication LED     Yes       • Group error SF (red)     Yes       Parameter	Group error	Yes	
• Group error SF (red)       Yes         Parameter <ul> <li>Diagnostics wire break</li> <li>at 4 to 20 mA</li> <li>Group diagnostics</li> <li>1</li> <li>Overflow/underflow</li> <li>1</li> <li>Potential separation</li> <li>Potential separation analog inputs</li> <li>between the channels</li> <li>between the channels and backplane bus</li> <li>Yes</li> <li>Between the channels and load voltage L+</li> <li>Yes</li> <li>Dimensions</li> <li>Width</li> <li>15 mm</li> <li>Height</li> <li>81 mm</li> </ul>	Overflow/underflow	Yes	
Parameter         Diagnostics wire break       at 4 to 20 mA         Group diagnostics       1         Overflow/underflow       1         Potential separation       1         Potential separation analog inputs       •         • between the channels       No         • between the channels and backplane bus       Yes         • Between the channels and load voltage L+       Yes         Dimensions       15 mm         Width       15 mm         Height       81 mm	Diagnostics indication LED		
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Group diagnostics       1         Overflow/underflow       1         Potential separation       1         Potential separation analog inputs       •         • between the channels       No         • between the channels and backplane bus       Yes         • Between the channels and load voltage L+       Yes         Dimensions       15 mm         Height       81 mm	Parameter		
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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       15 mm         Height       81 mm	Group diagnostics	1	
Potential separation analog inputs         • between the channels       No         • between the channels and backplane bus       Yes         • Between the channels and load voltage L+       Yes         Dimensions       15 mm         Height       81 mm	Overflow/underflow	1	
• between the channels     No       • between the channels and backplane bus     Yes       • Between the channels and load voltage L+     Yes       Dimensions     Yes       Width     15 mm       Height     81 mm	Potential separation		
between the channels and backplane bus Yes     Between the channels and load voltage L+ Yes  Dimensions  Width 15 mm Height 81 mm	Potential separation analog inputs		
• Between the channels and load voltage L+     Yes       Dimensions     Yes       Width     15 mm       Height     81 mm	<ul> <li>between the channels</li> </ul>	No	
Dimensions       Width       Height       81 mm	<ul> <li>between the channels and backplane bus</li> </ul>	Yes	
Width     15 mm       Height     81 mm	<ul> <li>Between the channels and load voltage L+</li> </ul>	Yes	
Height 81 mm	Dimensions		
	Width	15 mm	
Depth 52 mm	Height	81 mm	
	Depth	52 mm	

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