6ES7134-4MB02-0AB0





\*\*\* Spare part \*\*\* SIMATIC DP, Electronics module 2 Al I High Feature for ET 200S, 15 mm width, Cycle time per module: 0.5 ms, +/-20mA; 15 bit+sign, 4.. 20mA; 15 bit, Operational limit +/-0.1% with SF LED (group fault)

General information	
Product function	
Isochronous mode	Yes
Supply voltage	
Load voltage L+	
Rated value (DC)	24 V
<ul> <li>Reverse polarity protection</li> </ul>	Yes
Input current	
from load voltage L+ (without load), max.	48 mA
from backplane bus 3.3 V DC, max.	10 mA
output voltage / header	
supply voltage of the transmitters / header	
• present	Yes
• short-circuit proof	Yes
Power loss	
Power loss, typ.	1.2 W
Address area	
Address space per module	
<ul> <li>Address space per module, max.</li> </ul>	4 byte
Analog inputs	
Number of analog inputs	2
permissible input current for current input (destruction limit), max.	50 mA
Cycle time (all channels) max.	0.5 ms; 0.5 ms for 2 channels without noise suppression, 18 / 21 ms per channel with noise suppression
Input ranges (rated values), currents	
• -20 mA to +20 mA	Yes
• 4 mA to 20 mA	Yes
Cable length	
• shielded, max.	200 m
Analog value generation for the inputs	
Measurement principle	Sigma Delta
Integration and conversion time/resolution per channel	
<ul> <li>Resolution with overrange (bit including sign), max.</li> </ul>	16 bit
<ul> <li>Interference voltage suppression for interference frequency f1 in Hz</li> </ul>	60 / 50 Hz / no
Conversion time (per channel)	0.04 ms; Without noise suppression 17/20 ms per channel with error
Smoothing of measured values	
<ul> <li>parameterizable</li> </ul>	Yes; In 4 stages: 1x, 4x, 16x, 32x cycle time
Step: None	Yes; 1x
Step: low	Yes; 4x

Step: High Yes; 32x  Errors/accuracies  Operational error limit in overall temperature range  • Current, relative to input range, (+/-) Basic error limit (operational limit at 25 °C) • Current, relative to input range, (+/-)  O.05 %; 0.1% without interference frequency suppression  Interrupts/diagnostics/status information  Alarms  • Hardware interrupt Yes  Diagnoses • Wire-break Yes; Measuring range 4 to 20 mA only • Group error Yes • Overflow/underflow Yes  Diagnostics indication LED • Group error SF (red)  Parameter  Remark Diagnostics wire break Diagnostics Group diagnostics Disable / enable Overflow/underflow Disable / enable Overflow/underflow Disable / enable Overflow/underflow Disable / enable  Potential separation	Step: Medium	Yes; 16x
Operational error limit in overall temperature range  • Current, relative to input range, (+/-)  Basic error limit (operational limit at 25 °C)  • Current, relative to input range, (+/-)  0.05 %; 0.1% without interference frequency suppression  Interrupts/diagnostics/status information  Alarms  • Hardware interrupt  Yes  Diagnoses  • Wire-break  • Group error  • Overflow/underflow  Parameter  Remark  Diagnostics wire break  Diagnostics  Diagnostics  Diagnostics wire break  Diagnostics  Diable / enable  Overflow/underflow  Diable / enable  Overflow/underflow  Diable / enable  Overflow/underflow  Diable / enable	Step: High	Yes; 32x
Current, relative to input range, (+/-)  Basic error limit (operational limit at 25 °C)  Current, relative to input range, (+/-)  Current, relative to input range, (+/-)  Interrupts/diagnostics/status information  Alarms  Hardware interrupt  Piagnoses  Wire-break  Group error  Overflow/underflow  Parameter  Remark  Diagnostics wire break  Diagnostics  Overflow/underflow  Diagnostics  Diagnostics wire break  Diagnostics  Diagnostics  Diagnostics  Diagnostics  Diagnostics  Diagnostics  Diagnostics  Diagnostics  Diagnostics wire break  Diagnostics	Errors/accuracies	
Basic error limit (operational limit at 25 °C)  • Current, relative to input range, (+/-)  Interrupts/diagnostics/status information  Alarms  • Hardware interrupt  Pes  Diagnoses  • Wire-break  • Group error  • Overflow/underflow  Parameter  Remark  Diagnostics wire break  Diagnostics wire break  Diagnostics  Diagnostics  Diagnostics  12 bytes, 4 bytes in compatibility mode  Disable / enable  Overflow/underflow  Disable / enable  Overflow/underflow  Disable / enable  Overflow/underflow  Disable / enable	Operational error limit in overall temperature range	
Current, relative to input range, (+/-)  Interrupts/diagnostics/status information  Alarms  Hardware interrupt  Yes  Diagnoses  Wire-break Group error Overflow/underflow  Parameter  Remark Diagnostics wire break Diagnostics wire break Diagnostics wire break Diagnostics	<ul> <li>Current, relative to input range, (+/-)</li> </ul>	0.1 %; 0.2% without interference frequency suppression
Interrupts/diagnostics/status information  Alarms  Hardware interrupt  Yes  Diagnoses  Wire-break  Group error  Overflow/underflow  Parameter  Remark  Diagnostics wire break  Diagnostics wire break  Diagnostics wire break  Diagnostics  Disable / enable  Overflow/underflow  Disable / enable  Disable / enable  Overflow/underflow  Disable / enable	Basic error limit (operational limit at 25 °C)	
Alarms  • Hardware interrupt  Diagnoses  • Wire-break  • Group error  • Overflow/underflow  Parameter  Remark  Diagnostics wire break  Diagnostics wire break  Group diagnostics  Disable / enable  Overflow/underflow  Disable / enable  Overflow/underflow  Disable / enable  Overflow/underflow  Disable / enable	<ul> <li>Current, relative to input range, (+/-)</li> </ul>	0.05 %; 0.1% without interference frequency suppression
<ul> <li>Hardware interrupt</li> <li>Diagnoses</li> <li>Wire-break</li> <li>Group error</li> <li>Overflow/underflow</li> <li>Group error SF (red)</li> <li>Parameter</li> <li>Remark</li> <li>Diagnostics wire break</li> <li>Disable / enable</li> <li>Overflow/underflow</li> <li>Disable / enable</li> <li>Overflow/underflow</li> <li>Disable / enable</li> <li>Overflow/underflow</li> </ul>	Interrupts/diagnostics/status information	
Diagnoses  Wire-break Group error Overflow/underflow Parameter  Remark Diagnostics wire break Diagnostics Group diagnostics Disable / enable Overflow/underflow Disable / enable Overflow/underflow Disable / enable Overflow/underflow Disable / enable	Alarms	
Wire-break Group error Overflow/underflow Yes Diagnostics indication LED Group error SF (red)  Parameter  Remark 12 bytes, 4 bytes in compatibility mode Diagnostics wire break Disable / enable Overflow/underflow Disable / enable Overflow/underflow Disable / enable Overflow/underflow Disable / enable	Hardware interrupt	Yes
● Group error  ● Overflow/underflow  Piagnostics indication LED  ● Group error SF (red)  Parameter  Remark  12 bytes, 4 bytes in compatibility mode  Diagnostics wire break  Disable / enable  Overflow/underflow  Disable / enable	Diagnoses	
● Overflow/underflow  Diagnostics indication LED  ● Group error SF (red)  Parameter  Remark  12 bytes, 4 bytes in compatibility mode  Diagnostics wire break  Disable / enable  Overflow/underflow  Disable / enable	Wire-break	Yes; Measuring range 4 to 20 mA only
Diagnostics indication LED  ● Group error SF (red)  Parameter  Remark  12 bytes, 4 bytes in compatibility mode  Diagnostics wire break  Disable / enable  Group diagnostics  Disable / enable  Overflow/underflow  Disable / enable	Group error	Yes
● Group error SF (red)  Parameter  Remark  12 bytes, 4 bytes in compatibility mode  Diagnostics wire break  Group diagnostics  Disable / enable  Overflow/underflow  Disable / enable	Overflow/underflow	Yes
Parameter  Remark  12 bytes, 4 bytes in compatibility mode  Diagnostics wire break  Disable / enable  Group diagnostics  Disable / enable  Overflow/underflow  Disable / enable	Diagnostics indication LED	
Remark 12 bytes, 4 bytes in compatibility mode Diagnostics wire break Disable / enable Group diagnostics Disable / enable Overflow/underflow Disable / enable	<ul> <li>Group error SF (red)</li> </ul>	Yes
Diagnostics wire break  Group diagnostics  Disable / enable  Overflow/underflow  Disable / enable	Parameter	
Group diagnostics Disable / enable Overflow/underflow Disable / enable	Remark	12 bytes, 4 bytes in compatibility mode
Overflow/underflow  Disable / enable	Diagnostics wire break	Disable / enable
	Group diagnostics	Disable / enable
Potential separation	Overflow/underflow	Disable / enable
	Potential separation	
Potential separation analog inputs	Potential separation analog inputs	
• between the channels No; however, increased permissible potential difference between the inputs.	<ul> <li>between the channels</li> </ul>	No; however, increased permissible potential difference between the inputs.
• between the channels and backplane bus  Yes	<ul> <li>between the channels and backplane bus</li> </ul>	Yes
Between the channels and load voltage L+     Yes	<ul> <li>Between the channels and load voltage L+</li> </ul>	Yes
Dimensions	Dimensions	
Width 15 mm	Width	15 mm
Height 81 mm	Height	81 mm
Depth 52 mm	Depth	52 mm
Weights	Weights	
Weight, approx. 45 g		

7/19/2024

last modified: