6ES7134-4MB02-0AB0

Data sheet



SIMATIC DP, Electronics module 2 AI 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
 Reverse polarity protection 	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	
 Address space per module, max. 	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	
 Resolution with overrange (bit including sign), max. 	16 bit
 Interference voltage suppression for interference frequency f1 in Hz 	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	
parameterizable	Yes; In 4 stages: 1x, 4x, 16x, 32x cycle time

Step: None	Yes; 1x
Step: low	Yes; 4x
Step: Medium	Yes; 16x
Step: High	Yes; 32x
Errors/accuracies	
Operational error limit in overall temperature range	
 Current, relative to input range, (+/-) 	0.1 %; 0.2% without interference frequency suppression
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	Yes; Measuring range 4 to 20 mA only
Group error	Yes
 Overflow/underflow 	Yes
Diagnostics indication LED	
 Group error SF (red) 	Yes
Parameter	
Remark	12 bytes, 4 bytes in compatibility mode
Diagnostics wire break	Disable / enable
Group diagnostics	Disable / enable
Overflow/underflow	Disable / enable
Potential separation	
Potential separation analog inputs	
• between the channels	No; however, increased permissible potential difference between the inputs.
 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

1/16/2021

last modified: