SIEMENS

Data sheet

6AG1134-4MB02-2AB0

SIPLUS ET200S EM 2 AE I HF -25 ... +70 DEGREES C WITH CONFORMAL COATING BASED ON 6ES7134-4MB02-0AB0 . ELECTRONIC MODULE, 15 MM WIDE, CYCLE TIME PER MODULE: 0.5MS, +/-20MA; 15 BIT + SIGN, 4 .. 20MA; 15 BIT, OPERATIONAL LIMITS +/-0.1% WITH LED SF (GROUP FAULT)



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	
Power supply to the transmitters	
• 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	50 mA
limit), max.	OU IIIA
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	
Voltage	No
Current	Yes
Thermocouple	No
Resistance thermometer	No
Resistance	No
Input ranges (rated values), currents	
• -20 mA to +20 mA	Yes
• 4 mA to 20 mA	Yes
Cable length	
• shielded, max.	200 m
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Analog value generation for the inputs	
Measurement principle	Sigma Delta
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), 	16 bit
max.	Vaa
Integration time, parameterizable	Yes
 Interference voltage suppression for interference frequency f1 in Hz 	60 / 50 Hz / no
	0.04 ms; Without noise suppression 17/20 ms per channel with
Conversion time (per channel)	error
Smoothing of measured values	
parameterizable	Yes; In 4 stages: 1 x, 4 x, 16 x, 32 x cycle time
• Step: None	Yes; 1x
• Step: low	Yes; 4x
• Step: Medium	Yes; 16x
• Step: High	Yes; 32x
Gtep. High	100, 021
Encoder	
Connection of signal encoders	
• for current measurement as 2-wire transducer	
— Burden of 2-wire transmitter, max.	750 Ω
Errors/accuracies	
Linearity error (relative to input range), (+/-)	0.03 %
Temperature error (relative to input range), (+/-)	0.03 %/K
Crosstalk between the inputs, min.	-100 dB
Repeat accuracy in steady state at 25 °C (relative to	0.01 %
input range), (+/-)	

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	
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interference frequency		
 Series mode interference (peak value of 	90 dB	
interference < rated value of input range), min.		
 Common mode interference (USS < 2.5 V) , min. 	100 dB	
Isochronous mode		
Isochronous operation (application synchronized up	Yes	
to terminal)		
Interrupts/diagnostics/status information		
Alarms		
Hardware interrupt	Yes	
Diagnostic messages		
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	
Measurement type/range	deactivated / +/-20 mA / 4 to 20 mA	
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	
Standards, approvals, certificates		
CE mark	Yes	
Ambient conditions		
Ambient temperature during operation		
• min.	-25 °C; = Tmin	
• max.	70 °C; = Tmax	
Extended ambient conditions		

• relative to ambient temperature-atmospheric pressure-installation altitude

Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)

Relative humidity

— With condensation, tested in accordance with IEC 60068-2-38, max.

100 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)

Resistance

- against biologically active substances / conformity with EN 60721-3-3
- against chemically active substances / conformity with EN 60721-3-3
- against mechanically active substances / conformity with EN 60721-3-3

Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request

Yes; Class 3C4 incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!

Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!

Dimensions		
Width	15 mm	
Height	81 mm	
Depth	52 mm	

Weights

Weight, approx.

45 g

last modified:

05/25/2017