SIEMENS

Data sheet

6AG1134-4JB51-7AB0



SIPLUS ET 200S EM 2AI RTD based on 6ES7134-4JB51-0AB0 with conformal coating, -25...+70 $^{\circ}\text{C},$

Figure similar

General information	
Product function	
Isochronous mode	No
Supply voltage	
Load voltage L+	
Rated value (DC)	24 V; From power module
 Reverse polarity protection 	Yes
Input current	
from load voltage L+ (without load), max.	30 mA
from backplane bus 3.3 V DC, max.	10 mA
output voltage / header	
supply voltage of the transmitters / header	
 product function / supply voltage for transmitters 	Yes
 short-circuit proof 	Yes
Power loss	
Power loss, typ.	0.6 W
Address area	
Address space per module	
 Address space per module, max. 	8 byte
Analog inputs	
Number of analog inputs	4; 2 for 3 or 4-wire connection
permissible input voltage for voltage input (destruction limit), max.	9 V
Constant measurement current for resistance-type transmitter, typ.	1.67 mA
Cycle time (all channels) max.	Number of active channels per module x basic conversion time
Technical unit for temperature measurement adjustable	No
Input ranges (rated values), resistance thermometer	
• Ni 100	Yes; Standard/climate
— Input resistance (Ni 100)	2 000 kΩ
• Pt 100	Yes; Standard/climate
— Input resistance (Pt 100)	2 000 kΩ
Input ranges (rated values), resistors	V
• 0 to 150 ohms	Yes 2,000 kO
— Input resistance (0 to 150 ohms)	2 000 kΩ Yes
• 0 to 300 ohms	Yes 2 000 kΩ
— Input resistance (0 to 300 ohms)• 0 to 600 ohms	2 000 KD Yes
Input resistance (0 to 600 ohms)	7 eS 2 000 kΩ
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parameterizable	Yes; for Pt100, Ni100
— for resistance thermometer Cable length	Pt100 (standard, climatic range), Ni100 (standard, climatic range)
shielded, max.	200 m
Analog value generation for the inputs	200 111
Measurement principle	integrating
Integration and conversion time/resolution per channel	integrating
Resolution with overrange (bit including sign), max.	16 bit; 150 ohms: 14 bit; 300, 600 ohms: 15 bit, Pt100, Ni100: 16 bit
Integration time, parameterizable	Yes
• Integration time (ms)	16,7 / 20 ms
Interference voltage suppression for interference	50 / 60 Hz
frequency f1 in Hz	
Conversion time (per channel)	66 / 80 ms; additional conversion time for diagnostic wire break test
Smoothing of measured values	V 1.6
parameterizable	Yes; In four stages by means of digital filtering
Step: None Step: law	Yes; 1x cycle time
Step: lowStep: Medium	Yes; 4x cycle time Yes; 32x cycle time
• Step: High	Yes; 64x cycle time
Encoder	1 es, 04x cycle time
Connection of signal encoders • for resistance measurement with two-wire	Yes
connection	165
for resistance measurement with three-wire connection	Yes
for resistance measurement with four-wire	Yes
connection	
Errors/accuracies	
Operational error limit in overall temperature range	
 Resistance thermometer, relative to input range, (+/- 	0.6 %
Basic error limit (operational limit at 25 °C)	
Resistance thermometer, relative to input range, (+/-	0.4 %
)	
Interrupts/diagnostics/status information	
Diagnoses	
Wire-break	Yes
Group error	Yes
Overflow/underflow	Yes
Diagnostics indication LED	
Group error SF (red)	Yes
Parameter	
Diagnostics wire break	Disable / enable
Group diagnostics	Disable / enable
Overflow/underflow	Disable / enable
Potential separation	
Potential separation analog inputs	
between the channels between the channels	No Voc
between the channels and backplane bus Between the channels and load voltage L+	Yes Yes
Between the channels and load voltage L+ Includion	160
Isolation	FOUNDO
Isolation tested with	500 V DC
Standards, approvals, certificates	V
CE mark	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	-25 °C; = Tmin
Max. Altitude during energtion relating to see level.	70 °C; = Tmax
Altitude during operation relating to sea level	5 000 m
 Installation altitude above sea level, max. Ambient air temperature-barometric pressure- 	5 000 m Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin
altitude	(Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)

Relative humidity	
 With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state)
Resistance	
Use in stationary industrial systems	
 to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
 to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
 to biologically active substances according to EN 60721-3-6 	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
 to chemically active substances according to EN 60721-3-6 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04 	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	40 g
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last modified:

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