SIEMENS

Data sheet

6AG2134-6GF00-4AA1



SIPLUS ET 200SP AI 8xl 2-/4-wire BA TX rail based on 6ES7134-6GF00-0AA1 with conformal coating, -40...+70 °C, OT4 with ST1/2 (+85 °C for 10 minutes), analog input module, suitable for BU type A0, A1, color code CC01, module diagnostics, 16 bit

Figure similar

General Information Product type designation Firmware version Firmware ver	riguresinina				
Firmware version FIW update possible Assed on usable BaseUnits BU type A0, A1 Color code for module-specific color identification plate Product function IRM data Isochronous mode Masuring range scalable Engineering with STEP 7 TIA Portal configurable/integrated from version Operating mode Oversampling Mo MSI OR: Configuration in RUN Reparameterization possible in RUN Calibration possible in RUN Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) perm	General information				
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Address space per module, max. Analog inputs Number of analog inputs 8; Single-ended	Address area				
Analog inputs Number of analog inputs 8; Single-ended	Address space per module				
Number of analog inputs 8; Single-ended	Address space per module, max.	16 byte			
	Analog inputs				
	Number of analog inputs	8; Single-ended			

permissible input current for current input (destruction limit),	50 mA
max. Cycle time (all channels), min.	1 ms; per channel
	i ilis, per channer
Input ranges (rated values), currents • 0 to 20 mA	Yes
— Input resistance (0 to 20 mA)	100 Ω; 15 bit
• -20 mA to +20 mA	Yes
— Input resistance (-20 mA to +20 mA)	100 Ω ; 16 bit incl. sign
• 4 mA to 20 mA	Yes
— Input resistance (4 mA to 20 mA) Cable length	100 Ω ; 15 bit
• shielded, max.	200 m
Analog value generation for the inputs	200 111
Integration and conversion time/resolution per channel	
Resolution with overrange (bit including sign), max.	16 bit
	Yes
Integration time, parameterizable Interference voltage curpression for interference	
 Interference voltage suppression for interference frequency f1 in Hz 	16.67 / 50 / 60 / 4 800 (16.67 / 50 / 60)
Conversion time (per channel)	180 / 60 / 50 / 0.625 (67.5 / 22.5 / 18.75) ms
Smoothing of measured values	
 Number of smoothing levels 	4; None; 4/8/16 times
parameterizable	Yes
Encoder	
Connection of signal encoders	
 for voltage measurement 	No
 for current measurement as 2-wire transducer 	Yes
 Burden of 2-wire transmitter, max. 	650 Ω
 for current measurement as 4-wire transducer 	Yes
Errors/accuracies	
Linearity error (relative to input range), (+/-)	0.01 %
Temperature error (relative to input range), (+/-)	0.005 %/K
Crosstalk between the inputs, min.	50 dB
Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)	0.05 %
Operational error limit in overall temperature range	
Current, relative to input range, (+/-)	0.5 %
Basic error limit (operational limit at 25 °C)	
Current, relative to input range, (+/-)	0.3 %
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interference	
Series mode interference (peak value of interference <	70 dB; With conversion time 67.5 / 22.5 / 18.75 ms: 40 dB
rated value of input range), min.	
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
Diagnostic alarm	Yes
Limit value alarm	No
Diagnoses	
Monitoring the supply voltage	Yes
Wire-break	Yes; at 4 to 20 mA
Short-circuit	Yes; Sensor supply to M; module by module
Group error	Yes
Overflow/underflow	Yes
Diagnostics indication LED	
Monitoring of the supply voltage (PWR-LED)	Yes; green LED
Channel status display	Yes; green LED
for channel diagnostics	No
for module diagnostics	Yes; green/red DIAG LED
Potential separation	
Potential separation channels	
between the channels	No
between the channels and backplane bus	Yes
between the channels and the power supply of the	No
The state of the s	

electronics					
solation					
Isolation tested with	750 V DC (type test) and according to EN 50155 (routine test)				
Standards, approvals, certificates					
Railway application					
• EN 50121-3-2	Yes; EMC for rail vehicles				
● EN 50121-4	Yes; EMC for signal and telecommunications systems				
● EN 50121-5	Yes; EMC for fixed installations and railway power supply equipment				
• EN 50124-1	Yes; Railway applications - overvoltage category OV2; pollution degree PD2; rated surge voltage UNi = 0.5 kV; UNm = 24 V DC				
• EN 50125-1	Yes; Rail vehicles - see ambient conditions				
• EN 50125-2	Yes; Stationary electrical equipment - see ambient conditions				
● EN 50125-3	Yes; Signal and telecommunications systems - see ambient conditions; vibrations and shocks: Application point outside of tracks (1 m to 3 m away from track)				
● EN 50155	Yes; Rail vehicles - temperature class OT4, ST1/ST2, horizontal mounting position				
• EN 61373	Yes; Rail vehicles - vibrations and shocks: Category 1 Class A/B				
Fire protection acc. to EN 45545-2	Yes; For proof of conformity, see Service & Support				
Ambient conditions					
Ambient temperature during operation					
 horizontal installation, min. 	-40 °C; = Tmin (incl. condensation/frost)				
 horizontal installation, max. 	70 °C; = Tmax; +85 °C for 10 min (OT4, ST1/ST2 acc. to EN 50155)				
• vertical installation, min.	-40 °C; = Tmin				
vertical installation, max.	50 °C; = Tmax				
Altitude during operation relating to sea level					
Installation altitude above sea level, max.	2 000 m				
Ambient air temperature-barometric pressure-altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)				
Relative humidity					
With condensation, tested in accordance with IEC 60068- 2-38, max.	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation				
Resistance					
Coolants and lubricants					
 Resistant to commercially available coolants and lubricants 	Yes; Incl. diesel and oil droplets in the air				
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, *				
— Against mechanical environmental conditions acc. to EN 60721-3-3	Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)				
Use on land craft, rail vehicles and special-purpose vehicles	Voc Class FP2 mold fungue and draws and an area (with the assertion of				
to biologically active substances according to EN 60721-3-5 to shapping the active substances according to EN.	Yes; Class 5B2 mold, fungus and dry rot spores (with the exception of fauna); Class 5B3 on request				
— to chemically active substances according to EN 60721-3-5	Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 5S3 incl. sand, dust; *				
to mechanically active substances according to EN 60721-3-5 Against mechanical environmental conditions acc.	Yes; Class 503 incl. sand, dust, Yes; Class 5M2 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-				
to EN 60721-3-5 — against mechanical environmental conditions acc. — against mechanical environmental conditions in	0AA0) Yes; level 1 (Location LE) using the SIPLUS Mounting Kit ET 200SP				
agriculture acc. to ISO 15003 Usage in industrial process technology	(6AG1193-6AA00-0AA0)				
— 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	200 (22.1. 0)10) (31.1. 1010. 250 (011)				
 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!				
0					
Conformal coating					

61086

- Protection against fouling acc. to EN 60664-3
- Electronic equipment on rolling stock acc. to EN 50155
- Military testing according to MIL-I-46058C, Amendment 7
- Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A

Yes; Type 1 protection

Yes; Class PC2 protective coating acc. to EN 50155:2017

Yes; Discoloration of coating possible during service life

Yes; Conformal coating, Class A

Dimensions				
Width	15 mm			
Height	73 mm			
Depth	58 mm			
Weights				
Weight, approx.	31 g			
Other				
Note:	for use in railway applications, also observe the product information "SIPLUS extreme RAIL" A5E37661960A. Online Support article 109736776			

Classifications

	Version	Classification
	Version	Glassification
eClass	14	27-24-26-01
eClass	12	27-24-26-01
eClass	9.1	27-24-26-01
eClass	9	27-24-26-01
eClass	8	27-24-26-01
eClass	7.1	27-24-26-01
eClass	6	27-24-26-01
ETIM	9	EC001596
ETIM	8	EC001596
ETIM	7	EC001596
IDEA	4	3562
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

EMV

Miscellaneous

Manufacturer Declaration









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Confirmation

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