SIEMENS

Data sheet

6AG1134-6HB00-2DA1



SIPLUS ET 200SP AI 2xU/I 2-, 4-wire HS based on 6ES7134-6HB00-0DA1 with conformal coating, -40...+60 °C, analog input module, suitable for BU type A0, A1, color code CC00, channel diagnostics, 16-bit, +/-0.3%

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General information	
Product type designation	AI 2xU/I 2-/4-wire HS
Firmware version	V2.0
 FW update possible 	Yes
usable BaseUnits	BU type A0, A1
Color code for module-specific color identification plate	CC00
Product function	
 I&M data 	Yes; I&M0 to I&M3
 Isochronous mode 	Yes
 Measuring range scalable 	No
Operating mode	
 Oversampling 	Yes; 2 channels per module
• MSI	No
CiR - Configuration in RUN	
Reparameterization possible in RUN	Yes
Calibration possible in RUN	No
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Input current	
Current consumption (rated value)	39 mA; without sensor supply
Encoder supply	
24 V encoder supply	
• 24 V	Yes
 Short-circuit protection 	Yes
 Output current, max. 	20 mA; max. 50 mA per channel for a duration < 10 s
Power loss	
Power loss, typ.	0.95 W; without sensor supply
Address area	
Address space per module	
• Address space per module, max.	4 byte; + 1 byte for QI information (32 bytes in the oversampling operating mode)
Analog inputs	
Number of analog inputs	2; Differential inputs
permissible input voltage for voltage input (destruction limit), max.	30 V
permissible input current for current input (destruction limit). max.	50 mA

Quale time (all change le) min	105 00
Cycle time (all channels), min.	125 µs
Analog input with oversampling	Yes 16
 Values per cycle, max. Resolution, min. 	
	50 µs
Input ranges (rated values), voltages • 0 to +10 V	Yes; 15 bit
- Input resistance (0 to 10 V)	75 kΩ
• 1 V to 5 V	Yes; 13 bit
- Input resistance (1 V to 5 V)	75 kΩ
 Input resistance (1 v to 5 v) -10 V to +10 V 	Yes; 16 bit incl. sign
- Input resistance (-10 V to +10 V)	75 kΩ
• -5 V to +5 V	Yes; 15 bit incl. sign
— Input resistance (-5 V to +5 V)	75 kΩ
Input ranges (rated values), currents	
• 0 to 20 mA	Yes; 15 bit
— Input resistance (0 to 20 mA)	130 Ω
• -20 mA to +20 mA	Yes; 16 bit incl. sign
 Input resistance (-20 mA to +20 mA) 	130 Ω
• 4 mA to 20 mA	Yes; 14 bit
— Input resistance (4 mA to 20 mA)	130 Ω
Cable length	
• shielded, max.	1 000 m; 200 m for voltage measurement
Analog value generation for the inputs	
Measurement principle	Actual value encryption (successive approximation)
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), max. 	16 bit
 Interference voltage suppression for interference 	No
frequency f1 in Hz	
Conversion time (per channel)	10 µs
Smoothing of measured values	
 Number of smoothing levels 	7; none; 2-/4-/8-/16-/32-/64-fold
 parameterizable 	Yes
- paratitatatimaala	
Encoder	
Encoder Connection of signal encoders	
Encoder	Yes
Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer	Yes Yes
Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max.	Yes 650 Ω
Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. • for current measurement as 4-wire transducer	Yes
Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max.	Yes 650 Ω
Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. • for current measurement as 4-wire transducer	Yes 650 Ω
Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. • for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-)	Yes 650 Ω Yes
Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. • for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min.	Yes 650 Ω Yes 0.03 % 0.01 %/K -50 dB
Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. • for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input	Yes 650 Ω Yes 0.03 % 0.01 %/K
Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. • for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)	Yes 650 Ω Yes 0.03 % 0.01 %/K -50 dB
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Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. • for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-)	Yes 650 Ω Yes 0.03 % 0.01 %/K -50 dB 0.1 %
Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. • for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Basic error limit (operational limit at 25 °C)	Yes 650 Ω Yes 0.03 % 0.01 %/K -50 dB 0.1 % 0.5 % 0.5 %
Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. • for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Current init (operational limit at 25 °C) • Voltage, relative to input range, (+/-)	Yes 650 Ω Yes 0.03 % 0.01 %/K -50 dB 0.1 % 0.5 % 0.5 % 0.5 %
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Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. • for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-)	Yes 650 Ω Yes 0.03 % 0.01 %/K -50 dB 0.1 % 0.5 % 0.5 % 0.2 % 0.2 % 0.2 % interference frequency
Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. • for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) Basic error limit (operational limit at 25 °C) • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Current, relative to input range, (+/-) • Comrent, relative to input range, (+/-)	Yes 650 Ω Yes 0.03 % 0.01 %/K -50 dB 0.1 % 0.5 % 0.5 % 0.2 % 0.2 % interference frequency 35 V
EncoderConnection of signal encoders• for voltage measurement• for current measurement as 2-wire transducer— Burden of 2-wire transmitter, max.• for current measurement as 4-wire transducerErrors/accuraciesLinearity error (relative to input range), (+/-)Temperature error (relative to input range), (+/-)Crosstalk between the inputs, min.Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)Operational error limit in overall temperature range• Voltage, relative to input range, (+/-)• Current, relative to input range, (+/-)• Common mode voltage, max.• Common mode interference, min.	Yes 650 Ω Yes 0.03 % 0.01 %/K -50 dB 0.1 % 0.5 % 0.5 % 0.2 % 0.2 % 0.2 % interference frequency
Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. • for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Current, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Common mode voltage, max. • Common mode interference, min. Isochronous mode	Yes 650 Ω Yes 0.03 % 0.01 %/K -50 dB 0.1 % 0.5 % 0.5 % 0.2 % 0.2 % 0.2 % interference frequency 35 V 90 dB
Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. • for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Current, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Common mode voltage, max. • Common mode interference, min. Isochronous mode Filtering and processing time (TCI), min.	Yes 650 Ω Yes 0.03 % 0.01 %/K -50 dB 0.1 % 0.5 % 0.5 % 0.5 % 0.2 % 0.2 % interference frequency 35 V 90 dB 80 μs
Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. • for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Current, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Current, relative to input range, (+/-) • Current, relative to input range, (+/-) • Common mode voltage, max. • Common mode voltage, max. • Common mode interference, min. Isochronous mode Filtering and processing time (TCI), min. Bus cycle time (TDP), min.	Yes 650 Ω Yes 0.03 % 0.01 %/K -50 dB 0.1 % 0.5 % 0.5 % 0.2 % 0.2 % 0.2 % interference frequency 35 V 90 dB
Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. • for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Current, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Common mode voltage, max. • Common mode voltage, max. • Common mode interference, min. Isochronous mode Filtering and processing time (TCI), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information	Yes 650 Ω Yes 0.03 % 0.01 %/K -50 dB 0.1 % 0.5 % 0.5 % 0.2 % 0.2 % interference frequency 35 V 90 dB 80 μs
Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. • for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Current, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Common mode voltage, max. • Common mode voltage, max. • Common mode interference, min. Isochronous mode Filtering and processing time (TCI), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information	Yes 650 Ω Yes 0.03 % 0.01 %/K -50 dB 0.1 % 0.5 % 0.5 % 0.2 % interference frequency 35 V 90 dB 80 μs 125 μs
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Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. • for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Current, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Current, relative to input range, (+/-) • Current, relative to input range, (+/-) • Common mode voltage, max. • Common mode voltage, max. • Common mode interference, min. Isochronous mode Filtering and processing time (TCI), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Alarms • Diagnostic alarm • Limit value alarm <td>Yes 650 Ω Yes 0.03 % 0.01 %/K -50 dB 0.1 % 0.5 % 0.5 % 0.5 % 0.2 % interference frequency 35 V 90 dB 80 μs 125 μs</td>	Yes 650 Ω Yes 0.03 % 0.01 %/K -50 dB 0.1 % 0.5 % 0.5 % 0.5 % 0.2 % interference frequency 35 V 90 dB 80 μs 125 μs
Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. • for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Current, relative to input range, (+/-) • Sufference voltage suppression for f = n x (f1 +/- 1 %), f1 = • Common mode voltage, max. • Common mode interference, min. Isochronous mode Filtering and processing time (TCI), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Alarms • Diagnostic alarm • Limit value alarm	Yes 650Ω Yes 0.03 % 0.01 %/K -50 dB 0.1 % 0.5 % 0.5 % 0.5 % 0.2 % $0.5 \forall$ 0.2 % 0.2 % $0.5 \forall$ 0.2 % $0.5 \forall$ 0.2 % 0.2 % $0.5 \forall$ 0.2 % $0.5 \forall$ 0.5 % 0.2 % $0.5 \forall$ 0.5 % 0.2 % 0.5 % 0.2 % 0.2 % 0.5 % 0.2 % 0.2 % 0.5 % 0.2 % 0.5 % 0.2 % 0.2 % 0.5 % 0.2 % 0.5
Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. • for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Current, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Current, relative to input range, (+/-) • Current, relative to input range, (+/-) • Common mode voltage, max. • Common mode voltage, max. • Common mode interference, min. Isochronous mode Filtering and processing time (TCI), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Alarms • Diagnostic alarm • Limit value alarm <td>Yes 650 Ω Yes 0.03 % 0.01 %/K -50 dB 0.1 % 0.5 % 0.5 % 0.5 % 0.2 % interference frequency 35 V 90 dB 80 μs 125 μs</td>	Yes 650 Ω Yes 0.03 % 0.01 %/K -50 dB 0.1 % 0.5 % 0.5 % 0.5 % 0.2 % interference frequency 35 V 90 dB 80 μs 125 μs

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	short-circuit in encoder supply
Group error	Yes
Overflow/underflow	Yes
Diagnostics indication LED	
Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED
Channel status display	Yes; green LED
for channel diagnostics	Yes; red LED
for module diagnostics	Yes; green/red DIAG LED
Potential separation	
Potential separation channels between the channels 	Yes
 between the channels and backplane bus 	Yes
 between the channels and backplane bus between the channels and the power supply of the 	Yes
electronics	
Permissible potential difference	
between different circuits	75 V DC/60 V AC (base isolation)
between the inputs (UCM)	75 V DC/60 V AC
Isolation	
Isolation tested with	707 V DC (type test)
Ambient conditions	
Ambient temperature during operation	
horizontal installation, min.	-40 °C; = Tmin (incl. condensation/frost)
 horizontal installation, max. 	60 °C; = Tmax; +70 °C with configured empty slots to the left and right
	of the module
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
 Ambient all temperature-barometric pressure- altitude 	(Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +2 000 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	100 %; RH incl. condensation / frost (no commissioning in bedewed
60068-2-38, max. Resistance	state), horizontal installation
Coolants and lubricants	
— Resistant to commercially available coolants	Yes; Incl. diesel and oil droplets in the air
and lubricants	
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	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52
EN 60721-3-3	(severity degree 3); *
 — to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *
 Against mechanical environmental conditions 	Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-
acc. to EN 60721-3-3	6AA00-0AA0)
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	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52
EN 60721-3-6	(severity degree 3); *
 — to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
 Against mechanical environmental conditions acc. to EN 60721-3-6 	Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)
Usage in industrial process technology	
 Against chemically active substances acc. to EN COSE4.4 	Yes; Class 3 (excluding trichlorethylene)
EN 60654-4 — Environmental conditions for process,	Vec: Level GY group A/R (evaluding triablerathylang) harmful and
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!
Conformal coating	
Coatings for printed circuit board assemblies acc. to	Yes; Class 2 for high reliability
EN 61086	

 Protection against f 	ouling acc.	to EN	60664-3
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• 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; Discoloration of coating possible during service life

Yes; Conformal coating, Class A

according to IPC-CC-830A	
Dimensions	
Width	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	32 g
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