SIEMENS

Data sheet

6AG1134-6HB00-2CA1



SIPLUS ET 200SP AI 2xU/I 2/4-W HF based on 6ES7134-6HB00-0CA1 with conformal coating, -40...+60 °C, analog input module, suitable for BU type A0, A1, color code CC05, channel diagnostics, 16-bit, +/-0.1%

Figuresimilar

General information	
Product type designation	AI 2xU/I 2-/4-wire HF
Firmware version	V1.0
 FW update possible 	Yes
usable BaseUnits	BU type A0, A1
Color code for module-specific color identification plate	CC03
Product function	
I&M data	Yes; I&M0 to I&M3
 Isochronous mode 	Yes
 Measuring range scalable 	No
Operating mode	
Oversampling	No
• MSI	No
CiR - Configuration in RUN	
Reparameterization possible in RUN	Yes
Calibration possible in RUN	Yes
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 (two-wire)
Additional 24 V encoder supply	
 Output current, max. 	100 mA; max. 150 mA for a duration of < 10 s (four-wire)
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
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
Input ranges (rated values), voltages	
• 0 to +10 V	Yes; 15 bit
— Input resistance (0 to 10 V)	75 κΩ
• 1 V to 5 V	Yes; 15 bit
— Input resistance (1 V to 5 V)	75 kΩ
• -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; 16 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; 15 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	Sigma Delta
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), max. 	16 bit
 Integration time, parameterizable 	Yes
 Interference voltage suppression for interference 	16.6 / 50 / 60 / 300 / 600 / 1 200 / 2 400 / 4 800
frequency f1 in Hz	
 Basic execution time of the module (all channels released) 	1 ms
Smoothing of measured values	
Number of smoothing levels	6; none; 2-/4-/8-/16-/32-fold
-	Yes
parameterizable Encoder	
Encoder	
Encoder Connection of signal encoders	
Encoder Connection of signal encoders • for voltage measurement	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 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 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	Yes 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), (+/-)	Yes Yes 650 Ω Yes 0.02 %
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 Yes 650 Ω Yes 0.02 % 0.005 %/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.	Yes Yes 650 Ω Yes 0.02 % 0.005 %/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 Yes 650 Ω Yes 0.02 % 0.005 %/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.	Yes Yes 650 Ω Yes 0.02 % 0.005 %/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 range), (+/-)	Yes Yes 650 Ω Yes 0.02 % 0.005 %/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 range), (+/-) Operational error limit in overall temperature range	Yes Yes 650 Ω Yes 0.02 % 0.005 %/K -50 dB 0.01 %
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, (+/-)	Yes Yes 650 Ω Yes 0.02 % 0.005 %/K -50 dB 0.01 %
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 Yes 650 Ω Yes 0.02 % 0.005 %/K -50 dB 0.01 %
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 Yes 650 Ω Yes 0.02 % 0.005 %/K -50 dB 0.01 % 0.2 % 0.2 %
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, (+/-) Basic error limit (operational limit at 25 °C) Voltage, relative to input range, (+/-)	Yes Yes 650 Ω Yes 0.02 % 0.005 %/K -50 dB 0.01 % 0.2 % 0.2 % 0.2 % 0.05 %; 0.1 % at SFU 4.8 kHz 0.05 %; 0.1 % at SFU 4.8 kHz
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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, (+/-) Eurrent, relative to input range, (+/-) Voltage, relative to input range, (+/-) Linterference voltage suppression for f = n x (f1 +/- 1 %), f1 = i	Yes Yes 650 Ω Yes 0.02 % 0.005 %/K -50 dB 0.01 % 0.2 % 0.2 % 0.2 % 0.05 %; 0.1 % at SFU 4.8 kHz 0.05 %; 0.1 % at SFU 4.8 kHz nterference frequency
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	N/
Monitoring the supply voltage	Yes
Wire-break	Yes; Measuring range 4 to 20 mA only
Short-circuit	Yes; For 1 to 5 V or for current measuring ranges 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 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
Altitude during operation relating to sea level	
Installation altitude above sea level, max.	5 000 m
 Ambient air temperature-barometric pressure- altitude 	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin
antide	(Tmax - 10 K) at 755 hPa 530 hPa (12 000 hFa (
Relative humidity	
With condensation, tested in accordance with IEC	100 %; RH incl. condensation / frost (no commissioning in bedewed
60068-2-38, max.	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	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of
EN 60721-3-3	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 2 2 	Yes; Class 3S4 incl. sand, dust, *
EN 60721-3-3 — 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	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on
EN 60721-3-6	request
 to chemically active substances according to EN correct o correct 	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	Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-
acc. to EN 60721-3-6	6AA00-0AA0)
Usage in industrial process technology	
 Against chemically active substances acc. to 	Yes; Class 3 (excluding trichlorethylene)
EN 60654-4	
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible);
71.04	level LC3 (salt spray) and level LB3 (oil)
Remark	
— Note regarding classification of environmental	* The supplied plug covers must remain in place over the unused
conditions acc. to EN 60721, EN 60654-4 and	interfaces during operation!
ANSI/ISA-71.04	
conditions acc. to EN 60721, EN 60654-4 and	

Conformal coating		
 Coatings for printed circuit board assemblies acc. to EN 61086 	Yes; Class 2 for high reliability	
 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection	
 Military testing according to MIL-I-46058C, Amendment 7 	Yes; Discoloration of coating possible during service life	
 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A 	Yes; Conformal coating, Class A	
Dimensions		
Width	15 mm	
Height	73 mm	
Depth	58 mm	
Weights		
Weight, approx.	32 g	
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