SIEMENS

Data sheet

6AG1134-6JF00-2CA1



SIPLUS ET 200SP AI 8xRTD/TC 2-wire based on 6ES7134-6JF00-0CA1 with conformal coating, -40...+60 °C, analog input module, suitable for BU type A0, A1, color code CC00, channel diagnostics, 16-bit, +/-0.1%

Figure similar

General information		
Product type designation	AI 8xRTD/TC 2-wire HF	
Firmware version		
• FW update possible	Yes	
based on	6ES7134-6JF00-0CA1	
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	No	
Engineering with		
STEP 7 TIA Portal configurable/integrated from version	see entry ID: 109746275	
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, max.	35 mA	
Power loss		
Power loss, typ.	0.75 W	
Address area		
Address space per module		
 Address space per module, max. 	16 byte; + 1 byte for QI information	
Analog inputs		
Number of analog inputs	8	
permissible input voltage for voltage input (destruction limit), max.	30 V	
Constant measurement current for resistance-type transmitter, typ.	2 mA	
Cycle time (all channels), min.	Sum of the basic conversion times and additional processing times (depending on the parameterization of the active channels)	
Technical unit for temperature measurement adjustable	Yes; °C/°F/K	
Input ranges (rated values), voltages		

• • · / Vor • t V Yes · 16 bit ncl. sign • · · input residence (240 mV) Yes · 16 bit ncl. sign • · · · · · input residence (240 mV) Yes · 16 bit ncl. sign • · · · · · · · · · · · · · · · · · · ·		
- Figure 1250 mV b + 250 mV Yes; 16 bit Incl. sign - Input resistance (20 mV b + 50 mV) 1 M0 - S0 mV b + 50 mV Yes; 16 bit Incl. sign - Input resistance (20 mV b + 50 mV) 1 M0 - Input resistance (20 mV b + 50 mV) 1 M0 - Input resistance (30 mV b + 50 mV) 1 M0 - Input resistance (30 mV b + 50 mV) 1 M0 - Input resistance (1)pe C Yes; 16 bit Incl. sign - Input resistance (1)pe C Yes; 16 bit Incl. sign - Input resistance (1)pe C) 1 M0 - Input resistance (1)pe N) Yes; 16 bit Incl. sign - Input resistance (1)pe N) Yes; 16 bit Incl. sign - Input resistance (1)pe N) Yes; 16 bit Incl. sign - Input resistance (1)pe N) Yes; 16 bit Incl. sign - Input resistance (1)pe N) Yes; 16 bit Incl. sign - Input resistance (1)pe N) Yes; 16 bit Incl. sign - In	• -1 V to +1 V	Yes; 16 bit incl. sign
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•••••••••••••••••••••••••••••••••••	• -250 mV to +250 mV	Yes; 16 bit incl. sign
- Input resitance (30 mV to +50 mV) 1M0 Figure and values) thermoouples Ves; 16 bit incl. sign - Input resitance (790 mV) 1M0 - Input resitance (190 mV) 1M0 <	 Input resistance (-250 mV to +250 mV) 	1 MΩ
• 40 mV 0 + 40 mV Yes; 16 bit Incl. sign Input resistance (46 mV to +80 mV) 1 MQ Input resistance (15 pe B) 1 MQ • hypt resistance (15 pe B) 1 MQ • hypt resistance (15 pe C) 1 MQ • hypt resistance (15 pe K) Yes; 16 bit Incl. sign • hypt resistance (15 pe K) Yes; 16 bit Incl. sign • hypt resistance (15 pe K) Yes; 16 bit Incl. sign • hypt resistance (15 pe K) Yes; 16 bit Incl. sign • hypt resistance (15 pe K) Yes; 16 bit Incl. sign • hypt resistance (15 pe K) Yes; 16 bit Incl. sign • hypt resistance (15 pe K) Yes; 16 bit Incl. sign • hypt resistance (15 pe K) Yes; 16 bit Incl. sign • hypt resistance (15 pe K) Yes; 16 bit Incl. sign • hypt resistance (15 pe K)	● -50 mV to +50 mV	Yes; 16 bit incl. sign
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Input resistance (Type B) Yes; 16 bit incl. sign - Input resistance (Type B) 1 MD • Type C Yes; 16 bit incl. sign - Input resistance (Type C) 1 MD • Type F Yes; 16 bit incl. sign - Input resistance (Type C) 1 MD • Type J Yes; 16 bit incl. sign - Input resistance (Type K) 1 MD • Type J Yes; 16 bit incl. sign - Input resistance (Type K) Yes; 16 bit incl. sign - Input resistance (Type K) Yes; 16 bit incl. sign - Input resistance (Type R) 1 MD • Type R Yes; 16 bit incl. sign - Input resistance (Type R) 1 MD • Type R Yes; 16 bit incl. sign - Input resistance (Type R) 1 MD • Type V Yes; 16 bit incl. sign - Input resistance (Type T) 1 MD • Type V Yes; 16 bit incl. sign - Input resistance (Type T) 1 MD • Type V Yes; 16 bit incl. sign - Input resistance (Type T) 1 MD • Type V Yes; 16 bit incl. sign - I	• -80 mV to +80 mV	Yes; 16 bit incl. sign
• Yep B Yes; 16 bit Incl. sign - Input resistance (Type B) 1 MQ • Input resistance (Type C) 1 MQ - Input resistance (Type B) 1 MQ - Input resistance (Type K) Yes; 16 bit Incl. sign - Input resistance (Type K) Yes; 16 bit Incl. sign - Input resistance (Type K) Yes; 16 bit Incl. sign - Input resistance (Type K) Yes; 16 bit Incl. sign - Input resistance (Type K) Yes; 16 bit Incl. sign - Input resistance (Type K) Yes; 16 bit Incl. sign - Input resistance (Type K) Yes; 16 bit Incl. sign - Input resistance (Type K) Yes; 16 bit Incl. sign - Input resistance (Type K) Yes; 16 bit Incl. sign - Input resistance (Type K) Yes; 16 bit Incl. sign - Input resistance (Type K) Yes; 16 bit Incl. sign - Input resistance (Type K) Yes; 16 bit Incl. sign - Input resistance (Type K) Yes; 16 bit Incl. sign - Input resistance (Yist K) Yes; 16 bit Incl. sign <td> Input resistance (-80 mV to +80 mV) </td> <td>1 ΜΩ</td>	 Input resistance (-80 mV to +80 mV) 	1 ΜΩ
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 Type C Yes: 16 bit Incl. sign Input resistance (Type C) TMQ Type E Type I Type J Type I Type I Type K Type S Type T Type T Type T Type T Type T Type T Type T/KTXK(L) to GOST Two Type TXKTXK(L) to GOST Two Type Type Type TYKTXK(L) to GOST Two Type Type Type Type Type Type Type Type	• Туре В	Yes; 16 bit incl. sign
	— Input resistance (Type B)	1 ΜΩ
• Type FYes: 16 bit incl. sign- Input resistance (Type E)1 M0• Type JYes: 16 bit incl. sign- Input resistance (Type K)Yes: 16 bit incl. sign- Input resistance (Type K)Yes: 16 bit incl. sign- Input resistance (Type K)Yes: 16 bit incl. sign- Input resistance (Type L)1 M0• Type NYes: 16 bit incl. sign- Input resistance (Type K)Yes: 16 bit incl. sign- Input resistance (Type N)1 M0• Type NYes: 16 bit incl. sign- Input resistance (Type S)1 M0• Type TYes: 16 bit incl. sign- Input resistance (Type S)1 M0• Type TYes: 16 bit incl. sign- Input resistance (Type S)1 M0• Type TYes: 16 bit incl. sign- Input resistance (Type C)1 M0• Type TYes: 16 bit incl. sign- Input resistance (Type U)Yes: 16 bit incl. sign- Input resistance (Type U)Yes: 16 bit incl. sign- Input resistance (Type U)Yes: 16 bit incl. sign- Input resistance (Type TX/TXKL) to GOST)Yes: 16 bit incl. sign- Input resistance (NI 100)1 M0• NI 100Yes: 16 bit incl. sign- Input resistance (NI 100)1 M0• NI 100Yes: 16 bit incl. sign- Input resistance (NI 200)1 M0• NI 100Yes: 16 bit incl. sign- Input resistance (NI 200)1 M0• NI 100Yes: 16 bit incl. sign- Input resistance (NI 200)1 M0• NI 200Yes: 16 bi	• Туре С	Yes; 16 bit incl. sign
	— Input resistance (Type C)	1 ΜΩ
 Type J Type J Type K Type T Type	• Type E	Yes; 16 bit incl. sign
- Input resistance (type J) 1M0 • Type K Yes; 16 bit Ind. sign - Input resistance (Type K) Yes; 16 bit Ind. sign - Input resistance (Type L) Yes; 16 bit Ind. sign - Input resistance (Type N) 1M0 • Type N Yes; 16 bit Ind. sign - Input resistance (Type N) 1M0 • Type R Yes; 16 bit Ind. sign - Input resistance (Type R) Yes; 16 bit Ind. sign - Input resistance (Type T) Yes; 16 bit Ind. sign - Input resistance (Type T) M0 • Type T Yes; 16 bit Ind. sign - Input resistance (Type T) M0 • Type TXXTXK(L) to COST) M0 • Type TXXTXK(L) to COST) M0 • Type TXXTXK(L) to COST) M0 • Input resistance (Ni 100) Yes; 16 bit Ind. sign - Input resistance (Ni 100) Yes; 16 bit Ind. sign - Input resistance (Ni 100) Yes; 16 bit Ind. sign - Input resistance (Ni 100) Yes; 16 bit Ind. sign - Input resistance (Ni 100) Yes; 16 bit Ind. sign - Input resistance (Ni 200) M0 Ni 200<	— Input resistance (Type E)	1 MΩ
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• Type L Yes; 16 bit incl. sign — Input resistance (Type N) 1 MΩ • Type N Yes; 16 bit incl. sign — Input resistance (Type N) 1 MΩ • Type R Yes; 16 bit incl. sign — Input resistance (Type R) Yes; 16 bit incl. sign — Input resistance (Type R) 1 MΩ • Type T Yes; 16 bit incl. sign — Input resistance (Type T) 1 MΩ • Type T Yes; 16 bit incl. sign — Input resistance (Type U) Yes; 16 bit incl. sign — Input resistance (Type U) Yes; 16 bit incl. sign — Input resistance (Type U) Yes; 16 bit incl. sign — Input resistance (Type TXK/TXKL) to GOST) 1 MΩ Proper Tax(TXKL) to GOST Yes; 16 bit incl. sign — Input resistance (Ni 100) 1 MΩ • Ni 100 Yes; 16 bit incl. sign — Input resistance (Ni 100) 1 MΩ • Ni 100 Yes; 16 bit incl. sign — Input resistance (Ni 100) 1 MΩ • Ni 200 Yes; 16 bit incl. sign — Input resistance (Ni 120) 1 MΩ • Ni 200 Yes; 16 b	• Туре К	Yes; 16 bit incl. sign
	— Input resistance (Type K)	1 ΜΩ
• Type NYes; 16 bit incl. sign- Input resistance (Type N)1 MΩ• Type RYes; 16 bit incl. sign- Input resistance (Type R)1 MΩ• Type SYes; 16 bit incl. sign- Input resistance (Type S)1 MΩ• Type TYes; 16 bit incl. sign- Input resistance (Type T)1 MΩ• Type UYes; 16 bit incl. sign- Input resistance (Type U)Yes; 16 bit incl. sign- Input resistance (Type U)Yes; 16 bit incl. sign- Input resistance (Type U)1 MΩ• Ni 100Yes; 16 bit incl. sign- Input resistance (Ni 100)1 MΩ• Ni 100Yes; 16 bit incl. sign- Input resistance (Ni 100)1 MΩ• Ni 100Yes; 16 bit incl. sign- Input resistance (Ni 100)1 MΩ• Ni 100Yes; 16 bit incl. sign- Input resistance (Ni 100)1 MΩ• Ni 120Yes; 16 bit incl. sign- Input resistance (Ni 100)1 MΩ• Ni 200Yes; 16 bit incl. sign- Input resistance (Ni 120)1 MΩ• Ni 200Yes; 16 bit incl. sign- Input resistance (Ni 200)1 MΩ• Ni 200Yes; 16 bit incl. sign- Input resistance (Ni 120)1 MΩ• Ni 200Yes; 16 bit incl. sign- Input resistance (Ni 200)1 MΩ• Ni 200Yes; 16 bit incl. sign- Input resistance (Ni 120)1 MΩ• Ni 200Yes; 16 bit incl. sign- Input resistance (PI 100)1 MΩ• Ni 200Yes; 16 bit incl. si	• Type L	Yes; 16 bit incl. sign
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• Type RYes; 16 bit incl. sign- Input resistance (Type R)1 MΩ• Type SYes; 16 bit incl. sign- Input resistance (Type S)1 MΩ• Type TYes; 16 bit incl. sign- Input resistance (Type T)1 MΩ• Type UYes; 16 bit incl. sign- Input resistance (Type U)1 MΩ• Type TYes; 16 bit incl. sign- Input resistance (Type U)1 MΩ• Type TXX/TXX(L) to GOST1 MΩ• Type TXX/TXX(L) to GOST1 MΩ• Input resistance (Type TXX/TXX(L) to GOST)1 MΩ• Input resistance (Type TXX/TXX(L) to GOST)1 MΩ• Int 0Yes; 16 bit incl. sign- Input resistance (Ni 100)1 MΩ• Ni 100Yes; 16 bit incl. sign- Input resistance (Ni 100)1 MΩ• Ni 100Yes; 16 bit incl. sign- Input resistance (Ni 100)1 MΩ• Ni 120Yes; 16 bit incl. sign- Input resistance (Ni 100)1 MΩ• Ni 1201 MΩ• Input resistance (Ni 100)1 MΩ• Ni 1201 MΩ• Ni 1201 MΩ• Ni 1201 MΩ• Ni 1201 MΩ• Input resistance (Ni 100)1 MΩ• Ni 1201 MΩ• Input resistance (Ni 100)1 MΩ• Ni 1201 MΩ• Pi 100Yes; 16 bit incl. sign- Input resistance (PI 100) <t< td=""><td>• Type N</td><td>Yes; 16 bit incl. sign</td></t<>	• Type N	Yes; 16 bit incl. sign
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• Type TYes; 16 bit incl. sign— Input resistance (Type T)1 MQ• Type UYes; 16 bit incl. sign— Input resistance (Type U)1 MQ• Type TXK/TXK(L) to GOSTYes; 16 bit incl. sign— Input resistance (Type TXK/TXK(L) to GOST)1 MQInput resistance (Type TXK/TXK(L) to GOST)1 MQ• Ni 100Yes; 16 bit incl. sign— Input resistance (Ni 100)1 MQ• Ni 100Yes; 16 bit incl. sign— Input resistance (Ni 1000)1 MQ• Ni 120Yes; 16 bit incl. sign— Input resistance (Ni 200)1 MQ• Ni 200Yes; 16 bit incl. sign— Input resistance (Ni 200)1 MQ• Ni 200Yes; 16 bit incl. sign— Input resistance (Ni 200)1 MQ• Ni 500Yes; 16 bit incl. sign— Input resistance (Ni 200)1 MQ• Pi 100Yes; 16 bit incl. sign— Input resistance (Pt 100)1 MQ• Pi 100Yes; 16 bit incl. sign— Input resistance (Pt 100)1 MQ• Pi 200Yes; 16 bit incl. sign— Input resistance (Pt 200)1 MQ• Pi 500Yes; 16 bit incl. sign— Input resistance (Pt 200)1 MQ• Pi 500Yes; 16 bit incl. sign— Input resistance (Pt 200)1 MQ• Input resistance (I to 50 ohms)1 MQ• Input resistance (I to 50	• Type S	Yes; 16 bit incl. sign
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• Type UYes; 16 bit incl. sign- Input resistance (Type U)1 MΩ• Type TXK/TXK(L) to GOSTYes; 16 bit incl. sign- Input resistance (Type TXK/TXK(L) to GOST)1 MΩInput ranges (rated values), resistance thermometer• Ni 100Yes; 16 bit incl. sign- Input resistance (Ni 100)1 MΩ• Ni 100Yes; 16 bit incl. sign- Input resistance (Ni 1000)1 MΩ• LG-Ni 1000Yes; 16 bit incl. sign- Input resistance (LG-Ni 1000)1 MΩ• Ni 200Yes; 16 bit incl. sign- Input resistance (Ni 200)1 MΩ• Ni 200Yes; 16 bit incl. sign- Input resistance (Ni 200)1 MΩ• Ni 200Yes; 16 bit incl. sign- Input resistance (Ni 200)1 MΩ• Ni 500Yes; 16 bit incl. sign- Input resistance (Ni 200)1 MΩ• Ni 500Yes; 16 bit incl. sign- Input resistance (Ni 200)1 MΩ• Pt 100Yes; 16 bit incl. sign- Input resistance (Pt 100)1 MΩ• Pt 1000Yes; 16 bit incl. sign- Input resistance (Pt 100)1 MΩ• Pt 200Yes; 16 bit incl. sign- Input resistance (Pt 200)1 MΩ• Pt 500Yes; 16 bit incl. sign- Input resistance (Pt 500)1 MΩ• Pt 500Yes; 16 bit incl. sign- Input resistance (Pt 500)1 MΩ• Do 150 ohmsYes; 15 bit- Input resistance (0 to 150 ohms)1 MΩ• O to 500 ohmsYes; 15 bit- Input resistance (0	• Туре Т	Yes; 16 bit incl. sign
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• Type TXK/TXK(L) to GOSTYes; 16 bit incl. sign— Input resistance (Type TXK/TXK(L) to GOST)1 MQInput ranges (rated values), resistance thermometer• Ni 100Yes; 16 bit incl. sign— Input resistance (Ni 100)1 MQ• Ni 100Yes; 16 bit incl. sign— Input resistance (Ni 100)1 MQ• LG-Ni 1000Yes; 16 bit incl. sign— Input resistance (Ni 1000)1 MQ• Ni 120Yes; 16 bit incl. sign— Input resistance (Ni 120)1 MQ• Ni 120Yes; 16 bit incl. sign— Input resistance (Ni 120)1 MQ• Ni 500Yes; 16 bit incl. sign— Input resistance (Ni 200)1 MQ• Ni 500Yes; 16 bit incl. sign— Input resistance (Ni 200)1 MQ• Ni 500Yes; 16 bit incl. sign— Input resistance (Ni 100)1 MQ• Pit 100Yes; 16 bit incl. sign— Input resistance (Ni 500)1 MQ• Pit 100Yes; 16 bit incl. sign— Input resistance (Pt 100)1 MQ• Pit 100Yes; 16 bit incl. sign— Input resistance (Pt 100)1 MQ• Pit 500Yes; 16 bit incl. sign— Input resistance (Pt 200)1 MQ• Pit 500Yes; 15 bit incl. sign— Input resistance (Pt 500)1 MQ• Pit 500Yes; 15 bit incl. sign— Input resistance (0 to 150 ohms)1 MQ• No to 300 ohmsYes; 15 bit— Input resistance (0 to 150 ohms)Yes; 15 bit— Input resistance (0 to 300 ohms)Yes; 15 bit <td>• Type U</td> <td>Yes; 16 bit incl. sign</td>	• Type U	Yes; 16 bit incl. sign
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Input ranges (rated values), resistance thermometer • Ni 100 Yes; 16 bit incl. sign - Input resistance (Ni 100) 1 MQ • Ni 1000 Yes; 16 bit incl. sign - Input resistance (Ni 1000) 1 MQ • LG-Ni 1000 Yes; 16 bit incl. sign - Input resistance (LG-Ni 1000) 1 MQ • Ni 120 Yes; 16 bit incl. sign - Input resistance (Ni 120) 1 MQ • Ni 200 Yes; 16 bit incl. sign - Input resistance (Ni 120) 1 MQ • Ni 500 Yes; 16 bit incl. sign - Input resistance (Ni 500) 1 MQ • Ni 500 Yes; 16 bit incl. sign - Input resistance (Ni 500) 1 MQ • Pit 100 Yes; 16 bit incl. sign - Input resistance (Pi 100) 1 MQ • Pit 100 Yes; 16 bit incl. sign - Input resistance (Pi 1000) 1 MQ • Pit 200 Yes; 16 bit incl. sign - Input resistance (Pi 200) 1 MQ • Pit 500 Yes; 16 bit incl. sign - Input resistance (Pi 500) 1 MQ Input resistance (Pi 500)	 Type TXK/TXK(L) to GOST 	Yes; 16 bit incl. sign
• Ni 100 Yes; 16 bit incl. sign - Input resistance (Ni 100) 1 MΩ • Ni 1000 Yes; 16 bit incl. sign - Input resistance (Ni 100) 1 MΩ • LG-Ni 1000 Yes; 16 bit incl. sign - Input resistance (Ni 100) 1 MΩ • Ni 120 Yes; 16 bit incl. sign - Input resistance (Ni 120) 1 MΩ • Ni 200 Yes; 16 bit incl. sign - Input resistance (Ni 200) 1 MΩ • Ni 200 Yes; 16 bit incl. sign - Input resistance (Ni 200) 1 MΩ • Ni 500 Yes; 16 bit incl. sign - Input resistance (Ni 200) 1 MΩ • Ni 500 Yes; 16 bit incl. sign - Input resistance (Ni 200) 1 MΩ • Pit 100 Yes; 16 bit incl. sign - Input resistance (Pt 100) 1 MΩ • Pt 200 Yes; 16 bit incl. sign - Input resistance (Pt 200) 1 MΩ • Pt 200 Yes; 16 bit incl. sign - Input resistance (Pt 500) 1 MΩ • Pt 500 Yes; 16 bit incl. sign - Input resistance (0 to 150 ohms) <t< td=""><td> Input resistance (Type TXK/TXK(L) to GOST) </td><td>1 ΜΩ</td></t<>	 Input resistance (Type TXK/TXK(L) to GOST) 	1 ΜΩ
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• Ni 1000 Yes; 16 bit Incl. sign - Input resistance (Ni 1000) 1 MΩ • LG-Ni 1000 Yes; 16 bit Incl. sign - Input resistance (LG-Ni 1000) Yes; 16 bit Incl. sign • Input resistance (Ni 120) 1 MΩ • Input resistance (Ni 120) 1 MΩ • Ni 200 Yes; 16 bit Incl. sign - Input resistance (Ni 200) 1 MΩ • Ni 500 Yes; 16 bit Incl. sign - Input resistance (Ni 200) 1 MΩ • Ni 500 Yes; 16 bit Incl. sign - Input resistance (Ni 200) Yes; 16 bit Incl. sign - Input resistance (Ni 200) Yes; 16 bit Incl. sign - Input resistance (Pt 100) Yes; 16 bit Incl. sign - Input resistance (Pt 100) 1 MΩ • Pt 100 Yes; 16 bit Incl. sign - Input resistance (Pt 200) 1 MΩ • Pt 500 Yes; 16 bit Incl. sign - Input resistance (Pt 500) Yes; 16 bit Incl. sign - Input resistance (Pt 500) Yes; 16 bit Incl. sign - Input resistance (Pt 500 shift) 1 MΩ • O to 150 ohms Yes; 15 bit - Input resistance	• Ni 100	Yes; 16 bit incl. sign
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- Input resistance (Pt 500) 1 MΩ Input ranges (rated values), resistors Yes; 15 bit • 0 to 150 ohms Yes; 15 bit - Input resistance (0 to 150 ohms) 1 MΩ • 0 to 300 ohms Yes; 15 bit - Input resistance (0 to 300 ohms) 1 MΩ • 0 to 600 ohms Yes; 15 bit • 0 to 600 ohms Yes; 15 bit	— Input resistance (Pt 200)	1 ΜΩ
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— Input resistance (0 to 300 ohms) 1 MΩ • 0 to 600 ohms Yes; 15 bit	— Input resistance (0 to 150 ohms)	1 ΜΩ
• 0 to 600 ohms Yes; 15 bit	• 0 to 300 ohms	Yes; 15 bit
	— Input resistance (0 to 300 ohms)	1 ΜΩ
— Input resistance (0 to 600 ohms) 1 MΩ	• 0 to 600 ohms	Yes; 15 bit
	- Input resistance (0 to 600 ohms)	1 ΜΩ

• 0 to 3000 ohms	Yes; 15 bit
— Input resistance (0 to 3000 ohms)	1 ΜΩ
• 0 to 6000 ohms	Yes; 15 bit
— Input resistance (0 to 6000 ohms)	1 ΜΩ
• PTC	Yes; 15 bit
— Input resistance (PTC)	1 ΜΩ
Thermocouple (TC)	
Temperature compensation	
— parameterizable	Yes
- Reference channel of the module	Yes
 — internal comparison point 	Yes; with BaseUnit type A1
 Reference channel of the group 	Yes
 — Number of reference channel groups 	4; Group 0 to 3
- fixed reference temperature	Yes
Cable length	
 shielded, max. 	200 m; 50 m with thermocouples
Analog value generation for the inputs	
Measurement principle	integrating (Sigma-Delta)
Integration and conversion time/resolution per channel	
Resolution with overrange (bit including sign), max.	16 bit
 Integration time, parameterizable 	Yes
Basic conversion time, including integration time (ms)	
- additional processing time for wire-break check	2 ms; In the ranges resistance thermometers, resistors and thermocouples
 Interference voltage suppression for interference 	16.6 / 50 / 60 Hz
frequency f1 in Hz	
 Conversion time (per channel) 	180 / 60 / 50 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 	Yes
 for resistance measurement with two-wire connection 	Yes
 for resistance measurement with three-wire connection 	No
 for resistance measurement with four-wire connection 	No
Errors/accuracies	
Linearity error (relative to input range), (+/-)	0.01 %; ±0.1 % for resistance thermometers and resistance
Temperature error (relative to input range), (+/-)	0.0009 %/K; ±0.005 % / K at thermocouple
Crosstalk between the inputs, min.	-50 dB
Repeat accuracy in steady state at 25 °C (relative to input	0.05 %
range), (+/-)	
Operational error limit in overall temperature range	
 Voltage, relative to input range, (+/-) 	0.2 %
 Resistance, relative to input range, (+/-) 	0.2 %
Basic error limit (operational limit at 25 °C)	
 Voltage, relative to input range, (+/-) 	0.05 %
 Resistance, relative to input range, (+/-) 	0.05 %
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interfe	erence frequency
 Series mode interference (peak value of interference < rated value of input range), min. 	70 dB
 Common mode voltage, max. 	10 V
Common mode interference, min.	90 dB
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
Diagnostic alarm	Yes
• Limit value alarm	Yes; two upper and two lower limit values in each case
Diagnoses	
Monitoring the supply voltage	Yes
Wire-break	Yes; channel by channel
Group error	Yes

Overflow/underflow	Voc: shannel by shannel
Diagnostics indication LED	Yes; channel by channel
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	Tes, greenned DIAG LED
Potential separation channels	
between the channels	No
 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)	10 V DC
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
 vertical installation, min. 	-40 °C; = Tmin (incl. condensation/frost)
 vertical installation, max. 	50 °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 (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 (no commissioning under condensation conditions)
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 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; *
	Yes; Class 6S3 incl. sand, dust; * Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00- 0AA0)
60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 Usage in industrial process technology	Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00- 0AA0)
60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN 60654-4	Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00- 0AA0) Yes; Class 3 (excluding trichlorethylene)
60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN	Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00- 0AA0)
60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN 60654-4 — Environmental conditions for process, measuring	Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00- 0AA0) Yes; Class 3 (excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level
60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04	Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00- 0AA0) Yes; Class 3 (excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level
60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and	Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00- 0AA0) Yes; Class 3 (excluding trichlorethylene) 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)

61086

• Protection against fouling acc. to EN 60664-3

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

Dimensions		
Width	15 mm	
Height Depth	73 mm	
Depth	58 mm	
Weights		
Weight, approx.	32 g	

last modified:

5/29/2024 🖸