SIEMENS

Data sheet

6ES7134-6JD00-2CA1



SIMATIC ET 200SP, Analog input module, AI 4xRTD/TC High Feature, Pack quantity: 10 units, suitable for BU type A0, A1, Color code CC00, channel diagnostics, 16 bit, +/-0.1%, 2-/3-/4-wire

Figure similar

General information	
Product type designation	AI 4xRTD/TC 2-/3-/4-wire HF
HW functional status	From FS08
Firmware version	
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 	No
Adjustment of measuring range	Yes
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	V14
 STEP 7 configurable/integrated from version 	V5.6
 PCS 7 configurable/integrated from version 	V8.1 SP1
 PROFIBUS from GSD version/GSD revision 	One GSD file each, Revision 3 and 5 and higher
 PROFINET from GSD version/GSD revision 	GSDML V2.3
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.	8 byte; + 1 byte for QI information
Hardware configuration	
Automatic encoding	Yes
Mechanical coding element	Yes
 Type of mechanical coding element 	Type A

Selection of BaseUnit for connection variants	
2-wire connection	BU type A0, A1
3-wire connection	BU type A0, A1
Analog inputs	- Al
Number of analog inputs	4
permissible input voltage for voltage input (destruction limit), max.	30 V
Constant measurement current for resistance-type transmitter, typ.	0.7 mA; 1.7 mA for Cu10 sensors
Cycle time (all channels), min.	Sum of the basic conversion times and additional processing times (depending on the parameterization of the active channels); for line compensation in case of a three-wire connection, an additional cycle is necessary
Technical unit for temperature measurement adjustable	Yes; °C/°F/K
Input ranges (rated values), voltages	
• -1 V to +1 V	Yes; 16 bit incl. sign
— Input resistance (-1 V to +1 V)	1 ΜΩ
• -250 mV to +250 mV	Yes; 16 bit incl. sign
— Input resistance (-250 mV to +250 mV)	1 ΜΩ
• -50 mV to +50 mV	Yes; 16 bit incl. sign
— Input resistance (-50 mV to +50 mV)	1 ΜΩ
• -80 mV to +80 mV	Yes; 16 bit incl. sign
- Input resistance (-80 mV to +80 mV)	1 ΜΩ
Input ranges (rated values), thermocouples	
• Type B	Yes; 16 bit incl. sign
— Input resistance (Type B)	1 ΜΩ
• Type C	Yes; 16 bit incl. sign
— Input resistance (Type C)	1 ΜΩ
• Type E	Yes; 16 bit incl. sign
— Input resistance (Type E)	1 ΜΩ
• Type J	Yes; 16 bit incl. sign
— Input resistance (type J)	1 ΜΩ
• Type K	Yes; 16 bit incl. sign
— Input resistance (Type K)	1 ΜΩ
• Type L	Yes; 16 bit incl. sign
— Input resistance (Type L)	1 ΜΩ
• Type N	Yes; 16 bit incl. sign
Input resistance (Type N)	1 ΜΩ
• Type R	Yes; 16 bit incl. sign
- Input resistance (Type R)	1 MΩ
• Type S	Yes; 16 bit incl. sign
— Input resistance (Type S)	1 MΩ
• Type T	Yes; 16 bit incl. sign
— Input resistance (Type T)	1 MΩ
Type U Type U	Yes; 16 bit incl. sign
— Input resistance (Type U)	1 M Ω
Type TXK/TXK(L) to GOST	Yes; 16 bit incl. sign
— Input resistance (Type TXK/TXK(L) to GOST)	1 M Ω
Input ranges (rated values), resistance thermometer	1 11122
• Cu 10	Yes; 16 bit incl. sign
— Input resistance (Cu 10)	1 M Ω
Ni 100	Yes; 16 bit incl. sign
— Input resistance (Ni 100)	1 M Ω
Ni 1000	Yes; 16 bit incl. sign
— Input resistance (Ni 1000)	1 M Ω
LG-Ni 1000	
	Yes; 16 bit incl. sign 1 $M\Omega$
— Input resistance (LG-Ni 1000)	
Ni 120 Input resistance (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 500	Yes; 16 bit incl. sign
— Input resistance (Ni 500)	1 ΜΩ

• Pt 100	Yes; 16 bit incl. sign
— Input resistance (Pt 100)	1 ΜΩ
• Pt 1000	Yes; 16 bit incl. sign
— Input resistance (Pt 1000)	1 ΜΩ
• Pt 200	Yes; 16 bit incl. sign
— Input resistance (Pt 200)	1 ΜΩ
• Pt 500	Yes; 16 bit incl. sign
— Input resistance (Pt 500)	1 ΜΩ
Input ranges (rated values), resistors	
• 0 to 150 ohms	Yes; 15 bit
— Input resistance (0 to 150 ohms)	1 ΜΩ
• 0 to 300 ohms	Yes; 15 bit
— Input resistance (0 to 300 ohms)	1 ΜΩ
• 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
shielded, max. Analog value generation for the inputs	200 m; 50 m with thermocouples
	200 m; 50 m with thermocouples integrating (Sigma-Delta)
Analog value generation for the inputs	
Analog value generation for the inputs Measurement principle	
Analog value generation for the inputs Measurement principle Integration and conversion time/resolution per channel	integrating (Sigma-Delta)
Analog value generation for the inputs Measurement principle Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max.	integrating (Sigma-Delta) 16 bit
Analog value generation for the inputs Measurement principle Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable	integrating (Sigma-Delta) 16 bit
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 Voltage, relative to input range, (+/-) 	0.05 %	
 Resistance, relative to input range, (+/-) 	0.05 %	
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interference 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	Yes; channel by channel	
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	No	
 between the channels and backplane bus 	Yes	
 between the channels and the power supply of the electronics 	Yes	
Permissible potential difference		
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.	-30 °C; < 0 °C as of FS08	
horizontal installation, max.	60 °C	
vertical installation, min.	-30 °C; < 0 °C as of FS08	
vertical installation, max.	50 °C	
Altitude during operation relating to sea level		
Installation altitude above sea level, max.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual	
Dimensions		
Width	15 mm	
Height	73 mm	
Depth	58 mm	

last modified:

9/7/2023