SIEMENS

Data sheet

6ES7134-6JD00-0DA1



SIMATIC ET 200SP, Analog input module, AI 4xTC High Speed, suitable for BU type A0, A1, Color code CC00, channel diagnostics, 16 bit, +/-0.1%

Product type designation At 4xTC HS HW functional status From FS02 Firmware version Yes usable BaseUnits But type A0, A1 Color code for module-specific color identification plate C000 Product function But type A0, A1 • I&M data Yes; I&M0 to I&M3 • Isochronous mode No • Isochronous mode Yes Engineering with Yes • STEP 7 TA Portal configurable/integrated from version V15 with HSP 265/integrated as of V15.1 • STEP 7 Ta Portal configurable/integrated from version V5 5 SP3 or higher • PROFIBUS from GSD version/GSD revision GSDML V2.3 Operating mode - • Oversampling No • MSI Yes Calibration possible in RUN Yes Calibration possible in RUN Yes Calibration possible in RUN Yes Permissible range, lower limit (DC) 24 V permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes Input current - Current consumption (rated value) 37 mA Current consumption, max. 50 mA Power loss - Power loss - Power loss	General information	
Firmware version Yes • FW update possible Yes usable BaseUnits BU type A0, A1 Color code for module-specific color identification plate CC00 Product function CC00 • I&M data Yes; I&M0 to I&M3 • Isochronous mode No • Isochronous mode Yes Engineering with Yes • STEP 7 TA Portal configurable/integrated from version V15 with HSP 265/integrated as of V15.1 • STEP 7 configurable/integrated from version V5.5 SP3 or higher • PROFIBUS from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher • Oversampling No • MSI Yes Calibration possible in RUN Yes Calibration possible in RUN Yes Supply voltage ZV Permissible range, lower limit (DC) 24 V permissible range, upper limit (DC) 28.8 V Reeverse polarity protection Yes Input current Current consumption, max. Courrent consumption, max. 50 mA Power loss - 0.9 W Address space per module, max. 16 byle; +1 byle for QI information Address space per module, max. 16 byle; +1 byle for QI information Address space per module Yes <td>Product type designation</td> <td>AI 4xTC HS</td>	Product type designation	AI 4xTC HS
• FW update possible Yes usable BaseUnits BU type A0, A1 Color code for module-specific color identification plate CO0 Product function Color code for module-specific color identification plate CO0 • I&M data Yes; I&M0 to I&M3 No • Measuring range scalable Yes Engineering with • STEP 7 TIA Portal configurable/integrated from version V15 with HSP 265/integrated as of V15.1 • STEP 7 TIA Portal configurable/integrated from version V5 5 SP3 or higher • PROFIBUS from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher • PROFIBUS from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher • Oversampling No • Mos Yes ClR - Configuration in RUN Yes Reparameterization possible in RUN Yes Supply voltage Yes Rated value (OC) 24 V permissible range, upper limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes Power loss, typ. 0.9 W Addre	HW functional status	From FS02
usable BaseUnits BU type A0, A1 Color code for module-specific color identification plate CC00 Product function CC00 • I&M data Yes; I&M0 to I&M3 • IBM data Yes; I&M0 to I&M3 • IBM data Yes; I&M0 to I&M3 • IBM data Yes; I&M0 to I&M3 • ISCHTONOUS mode Yes Engineering with Yes • STEP 7 TA Portal configurable/integrated from version V5.5 SP3 or higher • PROFINET from GSD version/GSD revision Ose SD file each, Revision 3 and 5 and higher • PROFINET from GSD version/GSD revision GSDML V2.3 Operating mode • Oversampling • Oversampling No • MSI Yes Calibration possible in RUN Yes Supply voltage Retar value (DC) permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V Rever toss, typ. 0.9 W Address space per module 6 oversampling • Address space per module, max. 16 byle; +1 byle for Ol information Hardware configuration Yes Address space per m	Firmware version	
Color code for module-specific color identification plate CC00 Product function CC00 • I&M data Yes; I&M0 to I&M3 • Isochronous mode No • Measuring range scalable Yes Engineering with Yes • STEP 7 TIA Portal configurable/integrated from version V15 with HSP 265/integrated as of V15.1 • STEP 7 configurable/integrated from version V5.5 SP3 or higher • PROFIBUS from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher • Oversampling No • MSI Yes Calitration possible in RUN Yes Calitration possible in RUN Yes Supply voltage Reted value (DC) permissible range, lower limit (DC) 24 V permissible range, lower limit (DC) 28.8 V Reverse polarity protection Yes Input current Current consumption (rated value) 37 mA Current consumption (rated value) 37 mA Current consumption, max. 50 mA Power loss Yes Address space per module, max. 16 byte; +1 byte for QI information Address space per module, max.	 FW update possible 	Yes
Product function Ves; I&M0 to I&M3 • I&M data Yes; I&M0 to I&M3 • Isochronous mode No • Measuring range scalable Yes Engineering with V15 with HSP 265/integrated as of V15.1 • STEP 7 TA Portal configurable/integrated from version V5.5 SP3 or higher • PROF/IBUS from GSD version/GSD revision Oce GSD file each, Revision 3 and 5 and higher • PROF/INET from GSD version/GSD revision GSDML V2.3 Operating mode Versampling • Oversampling No • MSI Yes Calibration possible in RUN Yes Calibration possible in RUN Yes Supply voltage Permissible range, upper limit (DC) permissible range, upper limit (DC) 24 V permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes Current consumption (rated value) 37 mA Current consumption, max. 50 mA Power loss, typ. 0.9 W Address space per module - • Address space per module - • Address space per module Yes • Mechanical coding element </td <td>usable BaseUnits</td> <td>BU type A0, A1</td>	usable BaseUnits	BU type A0, A1
• i&M data Yes; i&M0 to I&M3 • isochronous mode No • Measuring range scalable Yes Engineering with Yes • STEP 7 TiA Portal configurable/integrated from version V15 with HSP 265/integrated as of V15.1 • STEP 7 configurable/integrated from version V5.5 SP3 or higher • PROFINET 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 Versampling • Oversampling No • SIS Yes CiR - Configuration in RUN Yes Reparameterization possible in RUN Yes Calibration possible in RUN Yes Supply ovidtage Zet 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. Current consumption, max. 50 mA Power loss, typ. 0.9 W Address space per module 0.9 W Address space per module 16 byle; + 1 byle for QI information Hardware configuration Yes • Mechanical coding element Yes <td>Color code for module-specific color identification plate</td> <td>CC00</td>	Color code for module-specific color identification plate	CC00
• isochronous mode No • Measuring range scalable Yes Engineering with • • • STEP 7 TA Portal configurable/integrated from version V15 with HSP 265/integrated as of V15.1 • STEP 7 configurable/integrated from version V5.5 SP3 or higher • PROFIBUS from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher • PROFINET from GSD version/GSD revision Ge GSD file each, Revision 3 and 5 and higher • Oversampling No • Oversampling No • NSI Yes Calibration possible in RUN Yes Reparameterization possible in RUN Yes Supply voltage Instrument, COC) permissible range, lower limit (DC) 24 V permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes Input consumption (rated value) 37 mA Current consumption, max. 50 mA Power loss, lyp. 0.9 W Address space per module 0.9 W Address space per module, max. 16 byte; +1 byte for QI information Hardware configuration Yes • Mechanical coding element Yes	Product function	
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Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision GSDML V2.3 One GSD file each, Revision 3 and 5 and higher PROFIBUS from GSD version/GSD revision GSDML V2.3 Operating mode Oversampling MSI Yes CiR - Configuration in RUN Reparameterization possible in RUN Yes Supply voltage Rated value (DC) Permissible range, lower limit (DC) Pl.2 V Permissible range, lower limit (DC) Pl.2 V permissible range, upper limit (DC) Pl.2 V permissible range, upper limit (DC) Pl.3 V Power loss, typ. O mA Power loss 90 w Address area Address apace per module Address apace per module, max. Address space per module, max. 16 byte; + 1 byte for Ql information Hardware configuration Yes Mutomatic encoding Yes Mutomaticen	Isochronous mode	No
• STEP 7 TIA Portal configurable/integrated from version V15 with HSP 265/integrated as of V15.1 • STEP 7 configurable/integrated from version V5.5 SP3 or higher • PROFIBUS from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher • PROFINET from GSD version/GSD revision GSD file each, Revision 3 and 5 and higher • Oversampling No • MSI Yes Calibration possible in RUN Yes Calibration possible in RUN Yes Supply voltage 24 V Permissible range, lower limit (DC) 19.2 V permissible range, lower limit (DC) 28.8 V Reverse polarity protection Yes Current consumption (rated value) 37 mA Current consumption, max. 50 mA Power loss 90 wer loss Power loss 16 byte; + 1 byte for QI information Hardware configuration Yes Address space per module, max. 16 byte; + 1 byte for QI information Hardware configuration Yes • Address space per module, max. 16 byte; + 1 byte for QI information Hardware configuration Yes • Type of mechanical coding element Yes	Measuring range scalable	Yes
• STEP 7 configurable/integrated from version V5.5 SP3 or higher • 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 • Oversampling No • MSI Yes Calibration possible in RUN Yes Calibration possible in RUN Yes Supply voltage Reparameterization possible in RUN 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 Current S0 mA Power loss Power loss Power loss 0.9 W Address area 16 byte; +1 byte for QI information Address space per module Yes • Address space per module Yes • Address space per module Yes • Type of mechanical coding element Yes	Engineering with	
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PROFINET from GSD version/GSD revision GSDML V2.3 Operating mode Oversampling No MSI Yes 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. 50 mA Power loss, typ. 0.9 W Address space per module Yes Type of mechanical coding element Yes Type A	 STEP 7 configurable/integrated from version 	V5.5 SP3 or higher
Operating mode No • Oversampling No • MSI Yes CiR - Configuration in RUN Pes Calibration possible in RUN Yes Calibration possible in RUN Yes Supply voltage Permissible range, lower limit (DC) 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. Current consumption, max. 50 mA Power loss 0.9 W Address space per module 0.9 W Address space per module 16 byte; + 1 byte for Ql information Hardware configuration Yes Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Yes	 PROFIBUS from GSD version/GSD revision 	One GSD file each, Revision 3 and 5 and higher
• Oversampling No • MSI Yes CiR - Configuration in RUN Yes Reparameterization possible in RUN Yes Calibration possible in RUN Yes Supply voltage Yes 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) Current consumption, max. 50 mA Power loss Power loss Power loss V Address space per module - • Address space per module, max. 16 byte; + 1 byte for Ql information Hardware configuration Yes Automatic encoding Yes • Mechanical coding element Yes	 PROFINET from GSD version/GSD revision 	GSDML V2.3
MSI Yes CIR - Configuration in RUN Reparameterization possible in RUN Reparameterization possible in RUN Reparameterization possible in RUN Reparameterization possible in RUN Retacle (DC) Supply voltage Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Reverse polarity protection Yes Input current Current Consumption (rated value) To mA Current consumption, max. So mA Power loss, typ. Address space per module, max. 16 byte; + 1 byte for Ql information Hardware configuration Automatic encoding Yes New Automatic encoding Yes Type of mechanical coding element Type A	Operating mode	
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Reparameterization possible in RUN Yes Calibration possible in RUN Yes Supply voltage 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) 37 mA Current consumption, max. 50 mA Power loss Power loss, typ. 0.9 W Address space per module	• MSI	Yes
Calibration possible in RUN Yes Supply voltage 24 V 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 Yes Current consumption (rated value) 37 mA Current consumption, max. 50 mA Power loss 90 W Address space per module 0.9 W Address space per module, max. 16 byte; + 1 byte for Ql information Hardware configuration Yes Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	CiR - Configuration in RUN	
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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) 37 mA Current consumption, max. 50 mA Power loss 90wer loss, typ. 0.9 W Address space per module 0.9 W Address space per module, max. 16 byte; + 1 byte for QI information Hardware configuration Yes Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	Calibration possible in RUN	Yes
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Reverse polarity protection Yes Input current Input current Current consumption (rated value) 37 mA Current consumption, max. 50 mA Power loss 90 W Address area 0.9 W Address space per module 0.9 W • Address space per module, max. 16 byte; + 1 byte for QI information Hardware configuration Yes Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	permissible range, lower limit (DC)	19.2 V
Input current Current consumption (rated value) 37 mA Current consumption, max. 50 mA Power loss 90 wer loss, typ. Power loss, typ. 0.9 W Address area Address space per module • Address space per module, max. 16 byte; + 1 byte for QI information Hardware configuration Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	permissible range, upper limit (DC)	28.8 V
Current consumption (rated value) 37 mA Current consumption, max. 50 mA Power loss 0.9 W Address area 0.9 W Address space per module 0.9 W • Address space per module, max. 16 byte; + 1 byte for QI information Hardware configuration Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	Reverse polarity protection	Yes
Current consumption, max. 50 mA Power loss 0.9 W Address area 0.9 W Address space per module 0.9 W Address space per module, max. 16 byte; + 1 byte for QI information Hardware configuration Yes Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	Input current	
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Power loss, typ. 0.9 W Address area Address space per module • Address space per module, max. 16 byte; + 1 byte for QI information Hardware configuration Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	Current consumption, max.	50 mA
Address area Address space per module • Address space per module, max. 16 byte; + 1 byte for QI information Hardware configuration Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	Power loss	
Address space per module • Address space per module, max. 16 byte; + 1 byte for QI information Hardware configuration • Mechanical coding element Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	Power loss, typ.	0.9 W
Address space per module, max. 16 byte; + 1 byte for QI information Hardware configuration Automatic encoding Mechanical coding element Yes Type of mechanical coding element Type A	Address area	
Hardware configuration Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	Address space per module	
Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	Address space per module, max.	16 byte; + 1 byte for QI information
Mechanical coding element Yes Type of mechanical coding element Type A	Hardware configuration	
Mechanical coding element Yes Type of mechanical coding element Type A	Automatic encoding	Yes
Type of mechanical coding element Type A	-	Yes
	-	Туре А
Selection of Daseonic for connection variants	Selection of BaseUnit for connection variants	

2-wire connection	BU type A0, A1
Analog inputs	
Number of analog inputs	4
permissible input voltage for voltage input (destruction limit), max.	30 V
Cycle time (all channels), min.	5 ms; 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	
• -1 V to +1 V	Yes; 16 bit incl. sign
— Input resistance (-1 V to +1 V)	1 MΩ
• -250 mV to +250 mV	Yes; 16 bit incl. sign
- Input resistance (-250 mV to +250 mV)	1 MΩ
• -50 mV to +50 mV	Yes; 16 bit incl. sign
 Input resistance (-50 mV to +50 mV) 	1 MΩ
• -80 mV to +80 mV	Yes; 16 bit incl. sign
 Input resistance (-80 mV to +80 mV) 	1 MΩ
Input ranges (rated values), thermocouples	
• Туре В	Yes; 16 bit incl. sign
— Input resistance (Type B)	1 MΩ
• Type C	Yes; 16 bit incl. sign
— Input resistance (Type C)	1 MΩ
• Туре Е	Yes; 16 bit incl. sign
— Input resistance (Type E)	1 ΜΩ
• Туре Ј	Yes; 16 bit incl. sign
 Input resistance (type J) 	1 MΩ
• Туре К	Yes; 16 bit incl. sign
— Input resistance (Type K)	1 MΩ
• Type L	Yes; 16 bit incl. sign
 Input resistance (Type L) 	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)	1 MΩ
• Type S	Yes; 16 bit incl. sign
— Input resistance (Type S)	1 MΩ
• Туре Т	Yes; 16 bit incl. sign
— Input resistance (Type T)	1 MΩ
● Туре U	Yes; 16 bit incl. sign
— Input resistance (Type U)	1 ΜΩ
 Type TXK/TXK(L) to GOST 	Yes; 16 bit incl. sign
 Input resistance (Type TXK/TXK(L) to GOST) 	1 ΜΩ
Thermocouple (TC)	
Temperature compensation	
— parameterizable	Yes
- Reference channel of the module	No
— 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; 100 m for 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	1 ms
 Interference voltage suppression for interference frequency f1 in Hz 	16.6 / 50 / 60 Hz / off

Conversion time (ner channel)	180/60/50/1.25 ms
Conversion time (per channel) Smoothing of measured values	100/00/30/1.20 118
Number of smoothing levels	4; None; 4/8/16 times
parameterizable	Yes
Step: None	Yes
Step: low	Yes
Step: Medium	Yes
Step: High	Yes
Encoder	
Connection of signal encoders	
for voltage measurement	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.	-70 dB
Repeat accuracy in steady state at 25 °C (relative to input	0.03 %
range), (+/-)	
Operational error limit in overall temperature range	
 Voltage, relative to input range, (+/-) 	0.1 %; 0.3 % when SFU OFF
Basic error limit (operational limit at 25 °C)	
Voltage, relative to input range, (+/-)	0.05 %; 0.2 % when SFU OFF
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interfe	
 Series mode interference (peak value of interference < rated value of input range), min. 	70 dB
 Common mode voltage, max. 	60 V; DC
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	Vaci groop DWD LED
Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED
 Channel status display for channel diagnostics 	Yes; green LED Yes; red LED
for module diagnostics	Yes; green/red LED
Potential separation	res, greenmed 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 the inputs (UCM)	60 V DC
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for applications according to AMS 2750	Yes; Declaration of Conformity, see online support entry 109757262
Suitable for applications according to CQI-9	Yes; Based on AMS 2750 E
Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	-30 °C; < 0 °C as of FS02
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-30 °C; < 0 °C as of FS02
 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
Weights	
Weight, approx.	33 g

last modified:

12/19/2020 🖸