SIEMENS

Data sheet

6ES7134-6JD00-0DA1



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

General information	
Product type designation	AI 4xTC HS
HW functional status	From FS02
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
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 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 	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 (rated value)	37 mA
Current consumption, max.	50 mA
Power loss	
Power loss, typ.	0.9 W
Address area	
Address space per module	
	16 byte; + 1 byte for QI information
 Address space per module, max. 	10 byte, + 1 byte for Qi illiornation

Yes Yes Type A BU type A0, A1
Type A
BU type A0, A1
BU type A0, A1
4
30 V
5 ms; Sum of the basic conversion times and additional processing times (depending on the parameterization of the active channels)
Yes; °C/°F/K
Yes; 16 bit incl. sign
1 ΜΩ
Yes; 16 bit incl. sign
1 ΜΩ
Yes; 16 bit incl. sign
1 MΩ
Yes; 16 bit incl. sign
1 M Ω
1 MIZT
Voc. 16 hit incl. cign
Yes; 16 bit incl. sign
1 ΜΩ
Yes; 16 bit incl. sign
1 ΜΩ
Yes; 16 bit incl. sign
1 ΜΩ
Yes; 16 bit incl. sign
1 ΜΩ
Yes; 16 bit incl. sign
1 ΜΩ
Yes; 16 bit incl. sign
1 ΜΩ
Yes; 16 bit incl. sign
1 ΜΩ
Yes; 16 bit incl. sign
1 ΜΩ
Yes; 16 bit incl. sign
1 ΜΩ
Yes; 16 bit incl. sign
1 MΩ
Yes; 16 bit incl. sign $1 \text{ M}\Omega$
Yes; 16 bit incl. sign
1 ΜΩ
V
Yes
No
Yes; with BaseUnit type A1
Yes
4; Group 0 to 3
Yes
200 m; 100 m for thermocouples
integrating (Sigma-Delta)

 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 (per channel)	180/60/50/1.25 ms
Smoothing of measured values	
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), (+/-)	0.03 %
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 $f = n \times (f1 +/- 1 \%)$, $f1 =$	· · ·
 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	
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 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	Yes
electronics	
Permissible potential difference	201/20
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
Suitable for applications according to CQI-9	Yes
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 🗗