## SIEMENS

## Data sheet

## 6ES7134-6GD01-0BA1



SIMATIC ET 200SP, ANALOG INPUT MODULE, AI 4XI 2-/4-WIRE STANDARD, PACKING UNIT: 1 PIECE, FITS TO BU-TYPE A0, A1, COLOR CODE CC03, MODULE DIAGNOSIS, 16BIT, +/-0,3%

General information	
Product type designation	AI 4xI 2-/4-wire ST
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	CC03
Product function	
• I&M data	Yes; I&M0 to I&M3
Isochronous mode	No
<ul> <li>Measuring range scalable</li> </ul>	No
Engineering with	
STEP 7 TIA Portal configurable/integrated from version	V14 / -
STEP 7 configurable/integrated from version	V5.6 and higher
<ul> <li>PCS 7 configurable/integrated from version</li> </ul>	V8.1 SP1
<ul> <li>PROFIBUS from GSD version/GSD revision</li> </ul>	One GSD file each, Revision 3 and 5 and higher
<ul> <li>PROFINET from GSD version/GSD revision</li> </ul>	GSDML V2.3
Operating mode	
Oversampling	No
• MSI	No
CiR - Configuration in RUN	
Reparameterization possible in RUN	Yes
Calibration possible in RUN	No
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.	37 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
Power loss	
Power loss, typ.	0.85 W; Without encoder supply voltage
Address area	
Address space per module	
Address space per module, max.	8 byte; + 1 byte for QI information

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Hardware configuration	
Automatic encoding	Yes
Mechanical coding element	Yes
Type of mechanical coding element	Туре А
Selection of BaseUnit for connection variants	.,,,
2-wire connection	BU type A0, A1
4-wire connection	BU type A0, A1
Analog inputs	
Number of analog inputs	4; Differential inputs
permissible input current for current input (destruction limit),	50 mA
max.	
Cycle time (all channels), min.	Sum of the basic conversion times and additional processing times (depending
	on the parameterization of the active channels)
Input ranges (rated values), currents	
• 0 to 20 mA	Yes; 16 bit incl. sign
— Input resistance (0 to 20 mA)	100 $\Omega$ ; + approx. 0.7 V diode forward voltage in 2-wire operation
• -20 mA to +20 mA	Yes
<ul> <li>Input resistance (-20 mA to +20 mA)</li> </ul>	100 Ω
• 4 mA to 20 mA	Yes; 15 bit
— Input resistance (4 mA to 20 mA)	100 $\Omega$ ; + approx. 0.7 V diode forward voltage in 2-wire operation
Cable length	
• shielded, max.	1 000 m
Analog value generation for the inputs	
Measurement principle	integrating (Sigma-Delta)
Integration and conversion time/resolution per channel	
<ul> <li>Resolution with overrange (bit including sign), max.</li> </ul>	16 bit
<ul> <li>Integration time, parameterizable</li> </ul>	Yes
Interference voltage suppression for interference     froguency f1 in Hz	16.6 / 50 / 60 Hz
frequency f1 in Hz	180 / 60 / 50 ms
Conversion time (per channel)     Smoothing of measured values	1607 007 50 115
Number of smoothing levels	4; None; 4/8/16 times
parameterizable	4; None; 4/8/16 times Yes
• parameterizable Encoder	
parameterizable Encoder Connection of signal encoders	Yes
parameterizable Encoder Connection of signal encoders     o for voltage measurement	Yes No
parameterizable Encoder Connection of signal encoders     ofor voltage measurement     ofor current measurement as 2-wire transducer	Yes No Yes
parameterizable Encoder Connection of signal encoders     ofor voltage measurement     for current measurement as 2-wire transducer     — Burden of 2-wire transmitter, max.	Yes No Yes 650 Ω
<ul> <li>parameterizable</li> <li>Encoder</li> <li>Connection of signal encoders</li> <li>for voltage measurement</li> <li>for current measurement as 2-wire transducer</li> <li>Burden of 2-wire transmitter, max.</li> <li>for current measurement as 4-wire transducer</li> </ul>	Yes No Yes
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parameterizable  Encoder  Connection of signal encoders      ofor voltage measurement     ofor current measurement as 2-wire transducer         — Burden of 2-wire transmitter, max.     ofor 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 No Yes 650 Ω Yes 0.01 % 0.005 %/K 50 dB; Applies to up to ±5 V overvoltage in other channels
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Short-circuit	Yes; 2-wire mode: Short-circuit of the encoder supply to ground or of an input to the encoder supply
Group error	Yes
Overflow/underflow	Yes
Diagnostics indication LED	
<ul> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul>	Yes; green LED
Channel status display	Yes; green LED
<ul> <li>for channel diagnostics</li> </ul>	No
<ul> <li>for module diagnostics</li> </ul>	Yes; green/red LED
Potential separation	
Potential separation channels	
between the channels	Yes; channel group-specific between 2-wire current input group and 4-wire voltage input group
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
<ul> <li>between the channels and the power supply of the electronics</li> </ul>	Yes; only for 4-wire transducer
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	
<ul> <li>horizontal installation, min.</li> </ul>	-30 °C; < 0 °C as of FS02
<ul> <li>horizontal installation, max.</li> </ul>	60 °C
<ul> <li>vertical installation, min.</li> </ul>	-30 °C; < 0 °C as of FS02
<ul> <li>vertical installation, max.</li> </ul>	50 °C
Altitude during operation relating to sea level	
<ul> <li>Installation altitude above sea level, max.</li> </ul>	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.	31 g
	<b>c</b> ]

last modified:

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