SIEMENS

Data sheet

6ES7134-6GD00-0BA1

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



General information	
Firmware version	V1.1
 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
 Scalable measuring range 	No
Engineering with	
 STEP 7 TIA Portal configurable/integrated as of version 	V11 SP2 / V13
 STEP 7 configurable/integrated as of version 	V5.5 SP3 / -
 PCS 7 configurable/integrated as of version 	V8.1 SP1
 PROFIBUS as of GSD version/GSD revision 	GSD Revision 5
 PROFINET as of 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	No
Campration possible in region	140
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
- Output ouricit, max.	25 ,
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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Address space per module, max. Analog inputs Number of analog inputs	8 byte; + 1 byte for QI information 4; Differential inputs
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• Integration time, parameterizable	Yes
 Interference voltage suppression for interference frequency f1 in Hz 	16.6 / 50 / 60 Hz
 Conversion time (per channel) 	180 / 60 / 50 ms
Smoothing of measured values	
Number of levels	4; None; 4/8/16 times
• parameterizable	Yes
Encoder	

No

 for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. for current measurement as 4-wire transducer 	Yes $650 \ \Omega$ Yes
Errors/accuracies	
Linearity error (relative to full-scale), (+/-)	0.01 %
Temperature error (relative to full-scale), (+/-)	0.005 %/K
Crosstalk between the inputs, min.	50 dB; Applies to up to + /-5 V overvoltage in other channels
Repeat accuracy in steady state at 25 °C (relative to full-scale), (+/-)	0.05 %
Operational error limit in overall temperature range	
• Current, relative to full-scale, (+/-)	0.5 %
Basic error limit (operational limit at 25 °C)	
• Current, relative to full-scale, (+/-)	0.3 %
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interference frequency	
Series mode interference (peak value of	70 dB

Common mode voltage, max.	10 V
Common mode interference, min.	90 dB
Isochronous mode	

No

to terminal)	
Interrupts/diagnostics/status information	
Diagnostics	Yes
Alarms	
Diagnostic alarm	Yes
Limit value alarm	No
Diagnostic messages	
Monitoring the supply voltage	Yes
Wire-break	Yes; at 4 to 20 mA

of an input to the encoder supply

• Short-circuit

Connection of signal encoders

• for voltage measurement

Isochronous operation (application synchronized up

Yes; 2-wire mode: Short-circuit of the encoder supply to ground or

Group error	Yes
Overflow/underflow	Yes
Diagnostics indication LED	
 Monitoring of the supply voltage (PWR-LED) 	Yes; Green LED
 Channel status display 	Yes; Green LED
 for channel diagnostics 	No
 for module diagnostics 	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
 between the channels and backplane bus 	Yes
 between the channels and the power supply of the electronics 	Yes; only for 4-wire transducer

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)
Dimensions	
Width	15 mm

Weights	
Weight, approx.	31 g

last modified: 14.05.2016