SIEMENS

Data sheet

6AG1134-6FF00-2AA1

SIPLUS ET 200SP AI 8xU BASIC -40 ... +60 °C with conformal coating BasedOn: 6ES7134-6FF00-0AA1 . AI 8XU BASIC, FITS TO BU-TYPE A0, A1, Color Code CC02, Module Diagnosis, 16BIT



General information	
Product type designation	AI 8xU BA
Firmware version	
• FW update possible	Yes
usable BaseUnits	BU type A0, A1
Color code for module-specific color identification	CC02
plate	
Product function	
● I&M data	Yes; I&M0 to I&M3
 Measuring range scalable 	No
Engineering with	
 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

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.	25 mA
Power loss	
Power loss, typ.	0.7 W
Address area	
Address space per module	
Address space per module, max.	16 byte
Analog inputs	
Number of analog inputs	8; Single-ended
permissible input voltage for voltage input	30 V
(destruction limit), max.	
Cycle time (all channels), min.	1 ms; per channel
Input ranges (rated values), voltages	
• 0 to +10 V	Yes; 15 bit
 Input resistance (0 to 10 V) 	100 kΩ
• -10 V to +10 V	Yes; 16 bit incl. sign
 Input resistance (-10 V to +10 V) 	100 kΩ
Cable length	
• shielded, max.	200 m
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), 	16 bit
max.	
 Integration time, parameterizable 	Yes
 Interference voltage suppression for interference frequency f1 in Hz 	16.67 / 50 / 60 / 4 800 (16.67 / 50 / 60)
Conversion time (per channel)	180 / 60 / 50 / 0.625 (67.5 / 22.5 / 18.75) ms
Smoothing of measured values	
Number of smoothing levels	4; None; 4/8/16 times
parameterizable	Yes
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Encoder	
Connection of signal encoders	
 for voltage measurement 	Yes
 for current measurement as 4-wire transducer 	No
Errors/accuracies	

Linearity error (relative to input range), (+/-)	0.02 %	
Temperature error (relative to input range), (+/-)	0.009 %/K	
Crosstalk between the inputs, min.	-50 dB	
Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)	0.05 %	
Operational error limit in overall temperature range		
 Voltage, relative to input range, (+/-) 	0.9 %	
Basic error limit (operational limit at 25 °C)		
 Voltage, relative to input range, (+/-) 	0.3 %	
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interference frequency		
 Series mode interference (peak value of 	70 dB; With conversion time 67.5 / 22.5 / 18.75 ms: 40 dB	
interference < rated value of input range), min.		
Isochronous mode		
Isochronous operation (application synchronized up	No	
to terminal)		
Interrupts/diagnostics/status information		
Diagnostics function	Yes	
Alarms		
Diagnostic alarm	Yes	
• Limit value alarm	No	
Diagnostic messages		
 Monitoring the supply voltage 	Yes	
• Wire-break	No	
Short-circuit	No	
Group error	Yes	
Overflow/underflow	Yes	
Diagnostics indication LED		
 Monitoring of the supply voltage (PWR-LED) 	Yes; green PWR LED	
 Channel status display 	Yes; Green LED	
 for channel diagnostics 	No	
 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 	No	
Ambient conditions		
Ambient temperature during operation		
 horizontal installation, min. 	-40 °C; = Tmin	
 horizontal installation, max. 	60 °C; = Tmax	

Altitude during operation based on sea level	
 Ambient air temperature-barometric pressure- altitude 	Tmin Tmax at 1080 hPa 795 hPa (-1000 m +2000 m) // Tmin (Tmax - 10K) at 795 hPa 658 hPa (+2000 m +3500 m) // Tmin (Tmax - 20K) at 658 hPa 540 hPa (+3500 m +5000 m)
Relative humidity	
 With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation
Resistance	
Use in stationary industrial systems	
 to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation in corrosive atmospheres!
— to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75%) incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!
 — to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!
Dimensions	
Width	15 mm
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