Data sheet

SIPLUS ET 200S EM 2AO I Standard -25...+70°C with conformal coating based on "6ES7135-4GB01-0AB0 . ""+/-20 mA;" "13 bit+sign,"" ""4..20mA; 13 bit""" Cycle time less than 1 ms with SF LED (group fault)



Supply voltage		
Load voltage L+		
• Rated value (DC)	24 V; From power module	
Reverse polarity protection	Yes	
Input current		
from load voltage L+ (without load), max.	150 mA	
from backplane bus 3.3 V DC, max.	10 mA	
Power loss		
Power loss, max.	2 W	
Address area		
Address space per module		
Address space per module, max.	4 byte	
Analog outputs		
Number of analog outputs	2	
Current output, no-load voltage, max.	18 V	
Cycle time (all channels) max.	1.5 ms	
Output ranges, current		

• -20 mA to +20 mA	Yes			
• 4 mA to 20 mA	Yes			
Connection of actuators				
for current output two-wire connection	Yes			
• for current output four-wire connection	No			
Load impedance (in rated range of output)	110			
with current outputs, max.	500 Ω			
·	1 mH			
with current outputs, inductive load, max. Destruction limits against externally applied voltages an				
Destruction limits against externally applied voltages and currents				
 Voltages at the outputs towards MANA 	15 V; max. 15 V continuous; 75 V for max. 1 s (mark to space ratio 1:20)			
Current, max.	50 mA; DC			
Cable length				
• shielded, max.	200 m			
Analog value generation for the outputs				
Integration and conversion time/resolution per channel				
 Resolution with overrange (bit including sign), max. 	14 bit; 4 to 20 mA: 13 bit, ±20 mA: 14 bit			
Settling time				
• for resistive load	0.1 ms			
• for capacitive load	0.5 ms			
• for inductive load	0.5 ms			
Errors/accuracies				
Operational error limit in overall temperature range				
• Current, relative to output range, (+/-)	0.5 %			
Basic error limit (operational limit at 25 °C)				
• Current, relative to output range, (+/-)	0.3 %			
Interrupts/diagnostics/status information				
Diagnostic messages				
Wire-break	Yes			
Group error	Yes			
Diagnostics indication LED				
• Group error SF (red)	Yes			
Parameter				
Remark	7 byte			
Diagnostics wire break	Disable / enable			
Output type/range	deactivated / ±20 mA / 4 to 20 mA			
Group diagnostics	Disable / enable			
Response to CPU/master STOP	Output current and de-energized/substitute a value/keep last value			
Potential separation				

Potential separation analog outputs	
• between the channels	No
• between the channels and backplane bus	Yes
Between the channels and load voltage L+	Yes
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Ambient conditions Ambient temperature during operation	
• min.	-25 °C; = Tmin
• max.	70 °C; = Tmax
Altitude during operation relating to sea level	70 0, - 11114
Installation altitude above sea level, max.	5 000 m
Ambient air temperature-barometric pressure- altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	
 With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
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); Class 3B3 on request
 to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
 to biologically active substances according to EN 60721-3-6 	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
 to chemically active substances according to EN 60721-3-6 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
 Note regarding classification of environmental conditions acc. to EN 60721, 	* The supplied plug covers must remain in place over the unused interfaces during operation!
EN 60654-4 and ANSI/ISA-71.04	

Height	81 mm	
Depth	52 mm	
Weights		
Weight, approx.	40 g	
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