



SIPLUS ET 200S EM 2AI I-4-wire transducer based on 6ES7134-4GB11-0AB0 with conformal coating, -25...+60 °C,

General information	
Product function	
<ul style="list-style-type: none"> • Isochronous mode 	No
Supply voltage	
Load voltage L+	
<ul style="list-style-type: none"> • Rated value (DC) 	24 V; From power module
Input current	
from load voltage L+ (without load), max.	30 mA
from backplane bus 3.3 V DC, max.	10 mA
Power loss	
Power loss, typ.	0.6 W
Address area	
Address space per module	
<ul style="list-style-type: none"> • Address space per module, max. 	4 byte
Analog inputs	
Number of analog inputs	2
permissible input current for current input (destruction limit), max.	40 mA
Cycle time (all channels) max.	Number of active channels per module x basic conversion time
Input ranges (rated values), currents	
<ul style="list-style-type: none"> • -20 mA to +20 mA 	Yes; 50 Ohm
<ul style="list-style-type: none"> • 4 mA to 20 mA 	Yes; 50 Ohm
Cable length	
<ul style="list-style-type: none"> • shielded, max. 	200 m
Analog value generation for the inputs	
Measurement principle	integrating
Integration and conversion time/resolution per channel	
<ul style="list-style-type: none"> • Resolution with overrange (bit including sign), max. 	14 bit; ±20 mA: 14 bit, 4 to 20 mA: 13 bit
<ul style="list-style-type: none"> • Integration time (ms) 	16,7 / 20 ms
<ul style="list-style-type: none"> • Interference voltage suppression for interference frequency f1 in Hz 	50 / 60 Hz
<ul style="list-style-type: none"> • Conversion time (per channel) 	65 ms; 55 / 65 ms
Smoothing of measured values	
<ul style="list-style-type: none"> • parameterizable 	Yes; In four stages by means of digital filtering
<ul style="list-style-type: none"> • Step: None 	Yes; 1x cycle time
<ul style="list-style-type: none"> • Step: low 	Yes; 4x cycle time
<ul style="list-style-type: none"> • Step: Medium 	Yes; 32x cycle time
<ul style="list-style-type: none"> • Step: High 	Yes; 64x cycle time
Encoder	

Connection of signal encoders	
<ul style="list-style-type: none"> for current measurement as 2-wire transducer <ul style="list-style-type: none"> Burden of 2-wire transmitter, max. 	750 Ω
Errors/accuracies	
Operational error limit in overall temperature range	
<ul style="list-style-type: none"> Current, relative to input range, (+/-) 	0.6 %
Basic error limit (operational limit at 25 °C)	
<ul style="list-style-type: none"> Current, relative to input range, (+/-) 	0.4 %
Interrupts/diagnostics/status information	
Diagnoses	
<ul style="list-style-type: none"> Wire break Group error Overflow/Underflow 	<p>Yes; Measuring range 4 to 20 mA only</p> <p>Yes</p> <p>Yes</p>
Diagnostics indication LED	
<ul style="list-style-type: none"> Group error SF (red) 	Yes
Parameter	
Remark	4 byte
Diagnostics wire break	Disable / enable (only in measuring range 4 to 20 mA)
Group diagnostics	Disable / enable
Overflow/Underflow	Disable / enable
Potential separation	
Potential separation analog inputs	
<ul style="list-style-type: none"> between the channels between the channels and backplane bus Between the channels and load voltage L+ 	<p>No</p> <p>Yes</p> <p>No</p>
Isolation	
Isolation tested with	500 V DC
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
Ambient conditions	
Ambient temperature during operation	
<ul style="list-style-type: none"> min. max. 	<p>-25 °C; = Tmin</p> <p>60 °C; = Tmax</p>
Altitude during operation relating to sea level	
<ul style="list-style-type: none"> Installation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude 	<p>5 000 m</p> <p>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)</p>
Relative humidity	
<ul style="list-style-type: none"> With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state)
Resistance	
Use in stationary industrial systems	
<ul style="list-style-type: none"> to biologically active substances according to EN 60721-3-3 to chemically active substances according to EN 60721-3-3 to mechanically active substances according to EN 60721-3-3 	<p>Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request</p> <p>Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *</p> <p>Yes; Class 3S4 incl. sand, dust, *</p>
Use on ships/at sea	
<ul style="list-style-type: none"> to biologically active substances according to EN 60721-3-6 to chemically active substances according to EN 60721-3-6 to mechanically active substances according to EN 60721-3-6 	<p>Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request</p> <p>Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *</p> <p>Yes; Class 6S3 incl. sand, dust; *</p>
Usage in industrial process technology	
<ul style="list-style-type: none"> Against chemically active substances acc. to EN 60654-4 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 	<p>Yes; Class 3 (excluding trichlorethylene)</p> <p>Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level</p>

LC3 (salt spray) and level LB3 (oil)

Remark

— Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04

* The supplied plug covers must remain in place over the unused interfaces during operation!

Dimensions

Width	15 mm
Height	81 mm
Depth	52 mm

Weights

Weight, approx.	40 g
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Classifications

	Version	Classification
eClass	14	27-24-26-01
eClass	12	27-24-26-01
eClass	9.1	27-24-26-01
eClass	9	27-24-26-01
eClass	8	27-24-26-01
eClass	7.1	27-24-26-01
eClass	6	27-24-26-01
ETIM	10	EC001596
ETIM	9	EC001596
ETIM	8	EC001596
ETIM	7	EC001596
IDEA	4	3562
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval



[Manufacturer Declaration](#)



[China RoHS](#)



[Metrological Approval](#)

General Product Approval

EMV

For use in hazardous locations



[CCC-Ex](#)

last modified:

5/13/2024