



SIPLUS ET200S EM 4 AI I 2WIRE -25 ... +70 DEGREES C
WITH CONFORMAL COATING BASED ON 6ES7134-
4GD00-0AB0 . ELECTRONIC MODULE 4 - 20mA;
13BIT WIDTH: 15MM FOR 2-WIRE TRANSDUCER CYCLE
TIME 40MS/MODULE WITH LED SF (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.	125 mA
from backplane bus 3.3 V DC, max.	10 mA
Output voltage	
Power supply to the transmitters	
present	Yes
short-circuit proof	Yes ; approx. 200 mA for module
Power loss	
Power loss, typ.	0.6 W
Address area	
Address space per module	
Address space per module, max.	8 byte
Analog inputs	
Number of analog inputs	4

permissible input current for current input (destruction limit), max.	30 mA ; limited electronically
Cycle time (all channels) max.	40 ms ; 33 to 40 ms
Input ranges	
Voltage	No
Current	Yes
Thermocouple	No
Resistance thermometer	No
Resistance	No
Input ranges (rated values), currents	
4 to 20 mA	Yes ; Into 25 Ohm
Cable length	
Cable length, shielded, max.	200 m
Analog value generation	
Measurement principle	integrating
Integration and conversion time/resolution per channel	
Resolution with overrange (bit including sign), max.	13 bit ; 4 to 20 mA: 13 bits
Integration time, parameterizable	Yes
Integration time, ms	16,67 / 20 ms
Interference voltage suppression for interference frequency f1 in Hz	60 / 50 Hz
Smoothing of measured values	
parameterizable	Yes ; in 4 stages
Step: None	Yes ; 1 x cycle time
Step: Low	Yes ; 4 x cycle time
Step: Medium	Yes ; 16 x cycle time
Step: High	Yes ; 32 x cycle time
Encoder	
Connection of signal encoders	
Burden of 2-wire transmitter, max.	750 Ω
Errors/accuracies	
Linearity error (relative to input range), (+/-)	0.01 %
Temperature error (relative to input range), (+/-)	0.0030 %/K
Crosstalk between the inputs, min.	-50 dB
Repeat accuracy in steady state at 25 °C (relative to input area), (+/-)	0.05 %
Operational error limit in overall temperature range	
Current, relative to input area, (+/-)	0.5 %
Basic error limit (operational limit at 25 °C)	
Current, relative to input area, (+/-)	0.3 %

Interference voltage suppression for $f = n \times (f_1 \pm 1 \%)$, f_1 = interference frequency	
Series mode interference (peak value of interference < rated value of input range), min.	70 dB
Isochronous mode	
Isochronous mode (application synchronized up to terminal)	No
Interrupts/diagnostics/status information	
Diagnostic messages	
Diagnostic functions	Yes ; Can be read out
Wire-break	Yes ; Measuring range 1 to 5 V only
Group error	Yes
Overflow/underflow	Yes
Diagnostics indication LED	
Group error SF (red)	Yes
Parameter	
Remark	7 byte
Diagnostics wire break	1
Measurement type/range	1
Group diagnostics	1
Overflow/underflow	1
Galvanic isolation	
Galvanic isolation analog inputs	
between the channels	No
between the channels and the backplane bus	Yes
between the channels and the load voltage L+	No
Isolation	
Isolation tested with	500 V DC
Standards, approvals, certificates	
CE mark	Yes
Ambient conditions	
Extended ambient conditions	
relative to ambient temperature-atmospheric pressure-installation 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, maximum	100 % ; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	
to biologically active substances/conformity with 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/conformity with 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/conformity with EN 60721-3-3	Yes ; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!
Mechanical and climatic conditions during operation	
Climatic conditions in operation	
Temperature	
min.	-25 °C ; = Tmin
max.	70 °C ; = Tmax
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	40 g
Status	Jul 23, 2014