

SIEMENS

Product data sheet

6ES7134-4FB52-0AB0


SIMATIC DP,
ELECTRONIC MODULE ET 200S: 2 AI HIGH SPEED
U,
15 BIT, 15 MM WIDE,
CYCLE TIME OF MODULE: 0.1MS,
WITH LED SF (GROUP FAULT)

Supply voltage	
Load voltage L+	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	80 mA
from backplane bus 3.3 V DC, max.	10 mA
Power losses	
Power loss, typ.	1.9 W
Address area	
Address space per module	
Address space per module, max.	4 byte
Analog inputs	
Number of analog inputs	2
permissible input voltage for voltage input (destruction limit), max.	35 V ; Permanent

Cycle time (all channels) max.	250 μ s
Input ranges	
Voltage	Yes
Current	No
Thermocouple	No
Resistance thermometer	No
Resistance	No
Input ranges (rated values), voltages	
1 to 5 V	Yes
Input resistance (1 to 5 V)	120 k Ω
-10 V to +10 V	Yes
Input resistance (-10 V to +10 V)	120 k Ω
-2.5 V to +2.5 V	Yes
Input resistance (-2.5 V to +2.5 V)	120 k Ω
-5 V to +5 V	Yes
Input resistance (-5 V to +5 V)	120 k Ω
Cable length	
Cable length, shielded, max.	200 m
Analog value creation	
Integrations and conversion time/ resolution per channel	
Resolution with overrange (bit including sign), max.	16 bit ; 15 bits: 1 to 5 V; +/-2.5 V; 16 bits: +/-10 V; +/-5 V
Smoothing of measured values	
Parameterizable	Yes
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	
for voltage measurement	Yes
Errors/accuracies	
Linearity error (relative to input area)	+/- 0,03 %
Temperature error (relative to input area)	+/- 0,01 %/K

Crosstalk between the inputs, min.	-50 dB
Repeat accuracy in settled status at 25 °C (relative to input area)	+/- 0,1 %
Operational limit in overall temperature range	
Voltage, relative to input area	+/- 0,3 %
Basic error limit (operational limit at 25 °C)	
Voltage, relative to input area	+/- 0,2 %
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	Yes
Interrupts/diagnostics/status information	
Alarms	
Hardware interrupt	Yes
Diagnostic messages	
Diagnostic functions	Yes
Diagnostic information readable	Yes
Wire break	Yes ; At 1 to 5 V
Group error	Yes
Overflow/underflow	Yes
Diagnostics indication LED	
Group error SF (red)	Yes
Parameter	
Remark	12 bytes, 4 bytes in compatibility mode
Measurement type/range	Deactivated / +/-5 V / 1 to 5 V / +/-10 V / +/-2.5 V
Group diagnostics	Disable / enable
Overflow/underflow	Disable / enable
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+	Yes
Isolation	
Isolation checked with	500 V DC
Dimensions	

Width	15 mm
Module width, max.	15 mm
Height	81 mm
Depth	52 mm
Weight	
Weight, approx.	45 g
Status	Jul 17, 2012