SIEMENS

Data sheet 6ES7134-4JB01-0AB0

*** Spare part *** SIMATIC DP, Electronics module for ET 200S, 2 AI TC standard; 15 mm width, 15 bit+sign +/-80 mV; Characteristic linearization for thermocouples of the types: B, E, J, K, L, N, R, S, T Cycle time 65 ms/channel with SF LED (group fault)

General information	
Product function	
● Isochronous mode	No
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.	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	
● Address space per module, max.	4 byte
Analog inputs	
Number of analog inputs	2
permissible input voltage for voltage input (destruction limit), max.	10 V; Permanent
Cycle time (all channels) max.	Number of active channels per module x basic conversion time
Technical unit for temperature measurement adjustable	No; Celsius
Input ranges (rated values), voltages	
● -80 mV to +80 mV	Yes
— Input resistance (-80 mV to +80 mV)	1 MΩ
Input ranges (rated values), thermocouples	
● Type B	Yes
— Input resistance (Type B)	1 MΩ
● Type E	Yes
— Input resistance (Type E)	1 MΩ
● Type J	Yes
— Input resistance (type J)	1 MΩ
● Type K	Yes
— Input resistance (Type K)	1 MΩ
● Type L	Yes
— Input resistance (Type L)	1 MΩ
● Type N	Yes
— Input resistance (Type N)	1 MΩ
● Type R	Yes
— Input resistance (Type R)	1 MΩ
● Type S	Yes

— Input resistance (Type S)	1 MΩ
● Type T	Yes
— Input resistance (Type T)	1 MΩ
Thermocouple (TC)	
Temperature compensation	
— internal temperature compensation	Not possible
— external temperature compensation with compensations socket	Yes; possible, one external compensating box per channel
Characteristic linearization	
● parameterizable	Yes; Type B, E, J, K, L, N, R, S, T to IEC 584
Cable length	
● shielded, max.	50 m
Analog value generation for the inputs	
Measurement principle	integrating
Integration and conversion time/resolution per channel	
● Resolution with overrange (bit including sign), max.	16 bit; 15 bit + sign
● Integration time, parameterizable	Yes
● Integration time (ms)	16,7 / 20 ms
● Interference voltage suppression for interference frequency f1 in Hz	50 / 60 Hz
● Conversion time (per channel)	65 s; 55 / 65 ms (additional 20 ms on activated wire-break test)
Smoothing of measured values	
● parameterizable	Yes; In four stages by means of digital filtering
● Step: None	Yes; 1x cycle time
● Step: low	Yes; 4x cycle time
● Step: Medium	Yes; 32x cycle time
● Step: High	Yes; 64x cycle time
Encoder	
Connection of signal encoders	
● for voltage measurement	Yes
Errors/accuracies	
Operational error limit in overall temperature range	
● Voltage, relative to input range, (+/-)	0.6 %
Basic error limit (operational limit at 25 °C)	
● Voltage, relative to input range, (+/-)	0.4 %
Interrupts/diagnostics/status information	
Diagnoses	
● Diagnostic information readable	Yes
● Wire-break	Yes; A break in the wire is only detected for thermocouples
● Group error	Yes
● Overflow/underflow	Yes
Diagnostics indication LED	
● Group error SF (red)	Yes
Parameter	
Remark	4 byte
Diagnostics wire break	Disable / enable (wire break is detected only in thermocouples)
Group diagnostics	Disable / enable
Overflow/underflow	Disable / enable
Comparison point	none / RTD
Comparison point number	None / 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Potential separation	
Potential separation analog inputs	
● between the channels	No
● between the channels and backplane bus	Yes
● Between the channels and load voltage L+	Yes
Isolation	
Isolation tested with	500 V DC
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm

Weights	
Weight, approx.	40 g

last modified: 9/11/2023