SIEMENS

Data sheet

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SIMATIC DP, Electronics module for ET 200S, 2/4 AI RTD Standard, 15 mm width, 15 bit+sign Pt100 STD; Pt100 KL; NI100 STD; NI100 KL; 150 ohm; 300 ohm; 600 ohm; Cycle time 110 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
output voltage / header	
supply voltage of the transmitters / header	
 product function / supply voltage for transmitters 	Yes
 product feature / of the supply voltage for transmitters / short-circuit proof 	Yes
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; 2 for 3 or 4-wire connection
permissible input voltage for voltage input (destruction limit), max.	9 V
Constant measurement current for resistance-type transmitter, typ.	1.67 mA
Cycle time (all channels) max.	Number of active channels per module x basic conversion time
Technical unit for temperature measurement adjustable	No
Input ranges (rated values), resistance thermometer	
• Ni 100	Yes; Standard/climate
— Input resistance (Ni 100)	2 000 kΩ
• Pt 100	Yes; Standard/climate
— Input resistance (Pt 100)	2 000 kΩ
Input ranges (rated values), resistors	Yes
0 to 150 ohms— Input resistance (0 to 150 ohms)	γes 2 000 kΩ
Input resistance (0 to 150 offins) 0 to 300 ohms	Yes
Input resistance (0 to 300 ohms)	2 000 kΩ
• 0 to 600 ohms	Yes
— Input resistance (0 to 600 ohms)	2 000 kΩ
Characteristic linearization	

a narameterizable	Voc. for D1100 Ni100
parameterizable for resistance thermometer.	Yes; for Pt100, Ni100 Pt100 (standard, climatic range), Ni100 (standard, climatic range)
— for resistance thermometer Cable length	Pt100 (standard, climatic range), Ni100 (standard, climatic range)
shielded, max.	200 m
Analog value generation for the inputs	200 111
Measurement principle	integrating
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max.	16 hit: 150 ohmo: 14 hit: 200, 600 ohmo: 15 hit. Dt100, Ni100: 16 hit.
	16 bit; 150 ohms: 14 bit; 300, 600 ohms: 15 bit, Pt100, Ni100: 16 bit Yes
Integration time, parameterizableIntegration time (ms)	16,7 / 20 ms
Integration time (ms) Interference voltage suppression for interference	50 / 60 Hz
frequency f1 in Hz	307 00 112
Conversion time (per channel)	66 / 80 ms; additional conversion time for diagnostic 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 resistance measurement with two-wire	Yes
connection	
 for resistance measurement with three-wire connection 	Yes
 for resistance measurement with four-wire connection 	Yes
Errors/accuracies	
Operational error limit in overall temperature range	
 Resistance thermometer, relative to input range, (+/- 	0.6 %
)	
Basic error limit (operational limit at 25 °C)	0.407
 Resistance thermometer, relative to input range, (+/- 	0.4 %
Interrupts/diagnostics/status information	
Diagnoses	
Wire-break	Yes
Group error	Yes
Overflow/underflow	Yes
Diagnostics indication LED	163
Group error SF (red)	Yes
Parameter	1.00
Diagnostics wire break	Disable / enable
Group diagnostics	Disable / enable
Overflow/underflow	Disable / enable
Potential separation	Diouble / Cituble
Potential separation analog inputs	Na
between the channels hetween the channels and backplane bus	No Voc
 between the channels and backplane bus Between the channels and load voltage L+ 	Yes Yes
_	160
Isolation	FOO V DC
Isolation tested with	500 V DC
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	40 g
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