



*** Spare part *** 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	
Power supply to the transmitters	
• present	Yes
• 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	
• 0 to 150 ohms	Yes
— Input resistance (0 to 150 ohms)	2 000 kΩ
• 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			
<ul style="list-style-type: none"> parameterizable — for resistance thermometer 	Yes; for Pt100, Ni100 Pt100 (standard, climatic range), Ni100 (standard, climatic range)		
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. Integration time, parameterizable Integration time (ms) Interference voltage suppression for interference frequency f_1 in Hz Conversion time (per channel) 	16 bit; 150 ohms: 14 bit; 300, 600 ohms: 15 bit, Pt100, Ni100: 16 bit Yes 16,7 / 20 ms 50 / 60 Hz 66 / 80 ms; additional conversion time for diagnostic wire break test		
Smoothing of measured values			
<ul style="list-style-type: none"> parameterizable Step: None Step: low Step: Medium Step: High 	Yes; In four stages by means of digital filtering Yes; 1x cycle time Yes; 4x cycle time Yes; 32x cycle time Yes; 64x cycle time		
Encoder			
Connection of signal encoders			
<ul style="list-style-type: none"> for resistance measurement with two-wire connection for resistance measurement with three-wire connection for resistance measurement with four-wire connection 	Yes Yes Yes		
Errors/accuracies			
Operational error limit in overall temperature range			
<ul style="list-style-type: none"> Resistance thermometer, relative to input range, (+/-) 	0.6 %		
Basic error limit (operational limit at 25 °C)			
<ul style="list-style-type: none"> Resistance thermometer, relative to input range, (+/-) 	0.4 %		
Interrupts/diagnostics/status information			
Diagnoses			
<ul style="list-style-type: none"> Wire-break Group error Overflow/underflow 	Yes Yes Yes		
Diagnostics indication LED			
<ul style="list-style-type: none"> Group error SF (red) 	Yes		
Parameter			
Diagnostics wire break	Disable / enable		
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+ 	No Yes Yes		
Isolation			
Isolation tested with	500 V DC		
Dimensions			
Width	15 mm		
Height	81 mm		
Depth	52 mm		
Weights			
Weight, approx.	40 g		
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

[Miscellaneous](#)

[Manufacturer Declaration](#)



[China RoHS](#)



General Product Approval EMV For use in hazardous locations

[Metrological Approval](#)



[EM](#)



For use in hazardous locations Maritime application



[Miscellaneous](#)

[CCC-Ex](#)



Maritime application



[NK / Nippon Kaiji Kyokai](#)



Maritime application

[CCS \(China Classification Society\)](#)

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